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National Highway Traffic Safety Administration

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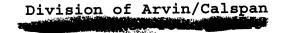
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TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP



CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. 92-12

VEHICLE - POLICE 1991 FORD LTD CROWN VICTORIA

LOCATION - CA

ACCIDENT DATE - ACCIDENT 1992

Contract No. DTNH22-87-C-27169

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the precrash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicles(s) or their safety systems.

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Research Group was LTD Crown Victoria reconstructed speed o left curve. The right The Crown Victoria the left side of the ro The vehicle becar right side passenger of	notified of the crash on and initiated was in pursuit of a speeding vehicle and was f 119.1 KPH (74 mph). The vehicle drifted or rear quarter panel area of the vehicle impacte subsequently rotated approximately 80° in count adway. The airborne as it exited the shoulder area of the compartment area impacted several trees which	departure crash that occurred on A. A. marked police 1991 Ford traveling on a rural two lane mountainous road at a police onto the right shoulder and broke traction as it exited a moderate and delineator post located at the outboard edge of the shoulder. Interclockwise direction across the travel lanes before departing the roadway as it traveled down a 45° earth embankment. The in resulted in severe vehicle damage. As a result of the impacts,
The driver of the active 3-point lap and shoulder belt and imp fractures with flail ch with brief loss of corpressed against the definition of the desired against the	shoulder belt system. In response to the late acted the intruding right upper B-pillar, roof, est and hemothorax (AIS-4), multiple fracture sciousness (AIS-2). He rebounded across the	0.5') and 99 kg (220 lbs.). He was properly restrained by the eral impact forces, the driver's upper torso slid out of the manual and roof side rail. As a result, he sustained multiple right ribes of the right upper extremity (AIS-3), and a closed head injury interior of the vehicle and came to rest with his left hand heat retained in the inflator assembly melted the air bag and ddle, ring, and fifth fingers.
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CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 92-12 VEHICLE - POLICE 1991 FORD CROWN VICTORIA 4 DR. SEDAN LOCATION - CA

SUMMARY

The single vehicle roadside departure crash occurred on a rural two-lane mountainous road on the control of the

The driver of the Ford Crown Victoria was on routine patrol and was traveling in an easterly direction on the state highway. He entered the parking lot of a local service station and noted a westbound vehicle traveling at a high rate of speed. The officer initiated a U-turn and activated the vehicle's emergency equipment (flashing lights and siren) and pursued the speeding westbound During the pursuit, the driver of the Crown Victoria entered a moderate left curve at a high rate of speed. The vehicle drifted wide onto the right (north) shoulder and broke traction as the driver exited the curve. The right rear quarter panel impacted a delineator post as the vehicle initiated a counterclockwise yaw. The Crown Victoria subsequently deposited four-wheel centrifugal tire marks on the road surface as it crossed both travel lanes. Highway Patrol computed an initial speed of 119.1 kph (74 mph) for the vehicle as it exited the curve using the critical curve formula.

As the vehicle crossed the eastbound travel lane and departed the left edge of the roadway, it had rotated approximately 80° in a counterclockwise direction. The police documented 82.3m (270′) of centrifugal tire marks prior to road departure. During Calspan's on-site investigation that occurred nearly three months later, 42.7m (140′) of tire marks were still visible on the asphalt road surface. As the vehicle departed the left (south) edge of the roadway, the right front fender area impacted and dislodged a steel delineator post from the cinder and earth shoulder. The vehicle exited the shoulder area in a near broadside orientation and became airborne as it traveled over the earth embankment. The frontal area of the Crown Victoria contacted branches of a large tree that was located on the embankment 7.62m (25′) outboard of the roadedge. The vehicle continued in a near broadside orientation and pitched

slightly to its right. The upper surface of the right front fender area of the vehicle impacted a 20.3cm (8") cedar tree that was located 9.1m (30') outboard of the roadedge. The 3 o'clock direction of force impact fractured the tree 81.3cm (32") above the ground and deflected the stump along the vehicle's path of travel. The right passenger compartment and roof side rail area of the vehicle subsequently impacted a 25.4cm (10") diameter cedar tree that was located 2.4m (8") east of the 20.3cm (8") diameter tree and 8.7m (28'6") south of the roadedge. At impact the vehicle was pitched approximately 15-20° to its right which resulted in a nonhorizontal impact force. The impact crushed the side structure of the vehicle 69.1cm (27.2") at the beltline and 83.8cm (33") at the right roof side rail. Again, the larger diameter tree fractured 1.9m (6'3") above the ground and the remaining stump was deflected to the ground as the vehicle overrode the struck tree.

The Ford Crown Victoria rotated approximately 30-40° in a clockwise direction following the latter impact sequence with the 25.4cm (10") tree. The vehicle came to rest facing in a downhill orientation approximately 6.1m (20') west of the 25.4cm (10") 6.1m (20') diameter tree. During the crash sequence, the supplemental driver's air bag system deployed.

The driver of the vehicle was a 54-year-old male with a stated height of 179.1cm (70.5") and weight of 99 kg (220 lbs.). He was properly wearing the active 3-point lap and shoulder belt system. Belt usage was supported by driver statements, blood stains on the upper shoulder belt webbing and by load induced abrasions to the inner plastic surface of the system's latchplate. There was no loading evidence on the belt webbing or damage to the active restraint system. The driver stated that he routinely drove the Crown Victoria with the seat adjusted to a mid-track position and the seatback set to the most upright position. He stated that the tilt steering column was probably adjusted to the center position.

At impact with the trees, the driver was probably out of position to his right due to the pre-crash rotation of the vehicle and was further displaced at each tree impact. As the vehicle impacted the 25.4cm (10") diameter tree, the driver moved laterally to his right as his upper torso slid out of the manual shoulder belt webbing, while his pelvic area loaded the lap belt portion of the 3-point belt system. His head impacted the intruding headliner and roof 36.8-50.8cm (14.5-20") rearward of the right Apillar and 27.9cm (11") above the side rail. The 11.4cm (4.5") diameter head contact cracked the backer to the headliner and bowed the roof panel approximately 0.6cm (0.25") outward. As a result of the contact, the driver sustained a laceration to the top of the scalp (AIS-1), a closed head injury with brief loss of consciousness and residual cognitive deficits (AIS-2), a nondisplaced fracture of the right zygoma (AIS-2), a nasal laceration (AIS-1), a displaced nasal fracture (AIS-2), and four dislocated immediately forward of the right B-pillar. The contact resulted in a fracture of his right clavicle (AIS-2). His right forearm impacted the right roof side rail 20.3-29.2cm (8-11.5") rearward of the right upper A-pillar. The contact was evidenced by tissue transfers on the headliner fabric that covered the side rail area. As a result of the side rail contact, the driver sustained a comminuted fracture of the right radial head (AIS-3) and a fracture of the right proximal ulna (AIS-2).

During the driver's lateral trajectory, his right chest area probably contacted the right upper B-pillar as the vehicle crushed to maximum engagement. Although no contact evidence was visible to the plastic jacket covering the B-pillar, the driver sustained fractures of the right ribs 2-9 with flail chest and right hemothorax (AIS-4) and a right pulmonary contusion (AIS-3).

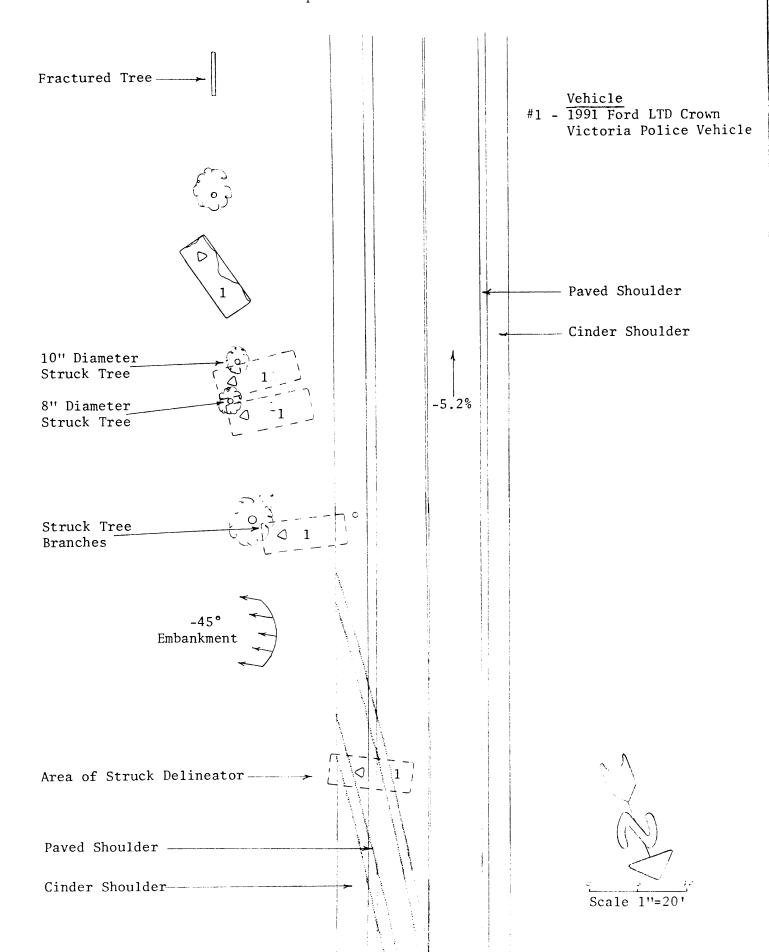
The driver subsequently rebounded across the interior of the vehicle into the left front seatback and/or the left front door panel. He sustained a fracture of the spinous process of T_{12} from the probable rebound contact. The supplemental driver's air bag system deployed during the crash sequence; however, due to the driver's lateral trajectories, he had minimal involvement with the bag. He came to rest with his left hand under the upper module cover flap, pressing against the deployed air bag and the inflation The hot inflation module melted the face of the air bag module. and an internal tether strap of the bag at the 10 o'clock position. The heat was transmitted through the bag which resulted in full thickness thermal burns of the dorsal aspects of the driver's left middle, ring, and fifth fingers (AIS-1). The thermal burns destroyed the tendons of the fingers and required extensive skin grafts. The driver came to rest slumped forward over the steering assembly and bled profusely from the nasal injuries onto the deflated air bag. He was transported by helicopter to a trauma center where he was admitted for 24 days for treatment of his injuries. Currently he has no ability to move the left ring and fifth fingers due to the extensive burn injury.

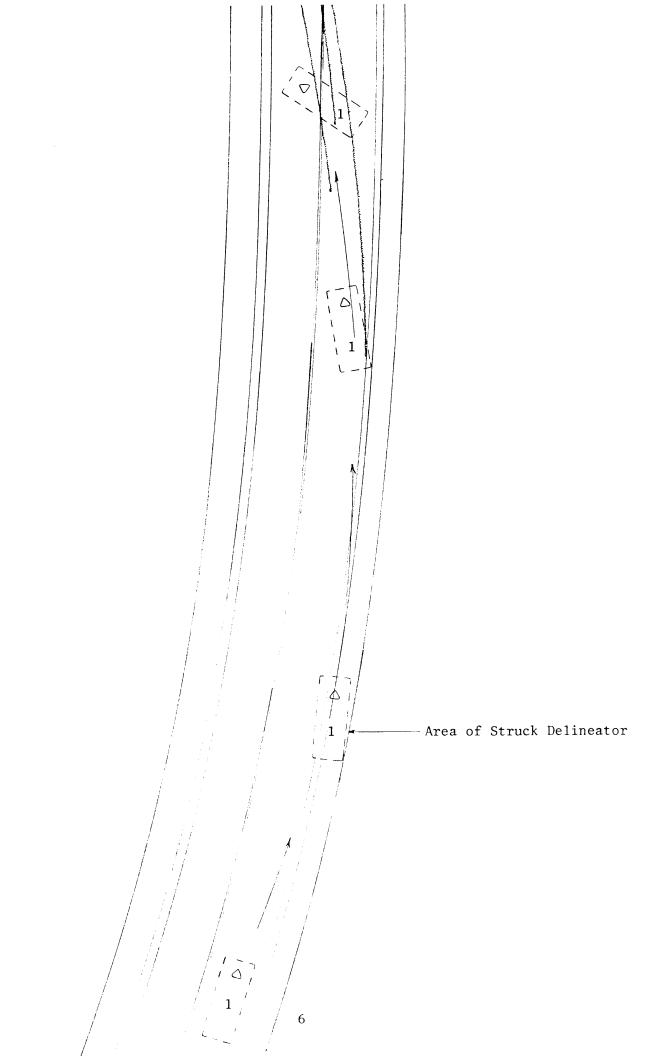
During our on-site investigation of this crash, a representative from TRW (manufacturer of the air bag module) was present to inspect and dismantle the module assembly. During his discussion of the deployment process, he stated that the air bag material, which consists of woven nylon with a neoprene liner, will not support a flame; however, it does have a melting point of 154-177° C. (310-350° F.). The inflation module, which is primarily stainless steel, reaches deployment temperatures of 300° C. (578° F.) and cools slowly due to its isolated, non-vented location.

The melted area of the air bag was located 19.1-26cm (7.5-10.25") left of center and $8.3-9.5 \, \text{cm}$ (3.25-3.75") above the 3 horizontal centerline. The 1.3 x 7.0cm (0.5 x 2.75") melted area of the air bag was located 4.4-10.2cm (1.75-4.0") inboard of the

horizontal centerline. The 1.3 x $7.0 \, \text{cm}$ (0.5 x $2.75 \, \text{"}$) melted area of the air bag was located $4.4 - 10.2 \, \text{cm}$ (1.75- $4.0 \, \text{"}$) inboard of the peripheral seam. Tissue and blood were visible within the melted area. The face of the inflator contained melted fragments of the bag and an internal tether strap that were pressed against the inflator by the driver's hand.

An external inspection of the inflator assembly did not yield evidence of filtering screen burnthrough or separation of the initiator assembly. The assembly was intact and appeared to have performed as designed. Due to the nature of the driver's burn injury and the melting of the bag, it was decided that disassembly of the inflator was not necessary. The module assembly was identified by the following alpha/numerical sequences:





CALSPAN ON-SITE AIR BAG DEPLOYMENT INVESTIGATION CALSPAN CASE NO. 92-12 VEHICLE - POLICE 1991 FORD CROWN VICTORIA

LOCATION - CA

ACCIDENT DATA

Location:

Rural, two lane state route

City/Township: CA

Area/Type: Rural/Mountainous

Accident Date/Time: 1992,

daylight hours

Investigating Police

Agency:

Highway Patrol

Accident Type: Single vehicle roadside

departure, multiple tree

impacts

Air Bag Vehicle Driver

Injury Severity: Severe (AIS-4)

AMBIENCE

Viewing Conditions: Daylight

Weather: Clear

Precipitation: None

Road Surface: Dry

HIGHWAY

Type: State route

Number of Lanes: 2

Width: 21'9"

Surface: Asphalt

Median: None

Edge: North edge - 1.8cm (6') paved

and loose cinder shoulder

South edge - 2.5m (8'4") paved

and loose cinder shoulder

Vertical Alignment: 5.2% grade, negative to the

west

Horizontal Alignment: Left curve

Traffic Density: Light

TRAFFIC CONTROLS

Signals: None

Signs: No pertinent signs

Markings: Yellow full barrier

centerlines, solid white

edgelines

Speed Limit: 88 KPH (55 mph)

VEHICLE

Description: 1991 Ford Crown Victoria, 4 dr.

sedan, marked police vehicle

V.I.N.: 2FACP72G5MX (production number

deleted)

Color: Black and white

Odometer: 26,919 miles

Engine: 8 cylinder, 5.8 L

Transmission: 4-speed automatic overdrive,

column mounted transmission

selector lever

Steering: Power

Brakes: Power front disc

Padding:

Upper, mid, and lower instrument panel, knee bolster, soft edged steering wheel rim and air bag module cover, sunvisors, adjustable head restraints, fold-down center armrest, door panels, door armrests, headliner

Active Restraints:

3-point lap and shoulder belts in the four outboard seated positions, center front and center rear lap belts

Automatic Restraints:

Supplemental driver's air bag system that deployed during the crash sequence

Defects:

None

Tow Status:

Towed due to damage

VEHICLE DAMAGE

Exterior:

The exterior of the 1991 Ford Crown Victoria sustained severe damage from multiple impacts with roadside and offroad objects. As the vehicle exited a left curve, it drifted onto the right shoulder and impacted a delineator with the right rear quarter panel area. impact produced 12.7cm (5") of crush to the panel that was located 86.4cm (34") rearward of the right rear axle. deformation to the quarter panel began 15.3cm (6") rearward of the referenced axle and extended 111.8cm (44") to the rear bumper. The vehicle rotated across the travel lanes in a counterclockwise direction and departed the left roadedge in a near broadside orientation. As the vehicle departed the roadway, the right front fender area impacted and dislodged a steel delineator post from the cinder and earth shoulder. Paint abrasions were noted to the fender 20-48cm (8-19") rearward of the right front axle position and were vertically orientated on the fender above the wheel opening. Crush damage to the area was masked by subsequent impacts.

Exterior
(Cont'd):

The vehicle exited the left shoulder of the roadway and traveled down an earth embankment, becoming airborne in a broadside yaw. The frontal area of the vehicle contacted overhanging branches of a large tree that was located 7.6m (25') outboard of the roadedge. The branches probably fractured the header panel and scratched the top surface of the vehicle's hood.

continued its vehicle As the trajectory down the embankment, the front undercarriage area of the Crown Victoria impacted the ground which displaced the frontal structure upward. Push bars were mounted to the front bumper and frame area of the vehicle. As a result of the undercarriage impact and subsequent contact with small diameter trees on the embankment, the right side of the front bumper face was dented 40-52cm (16-20.5") right of center, to a depth of 1.9cm (.75"). The lower right push bar bracket was deformed and displaced 12.7cm (5") laterally to the left. The bumper energy absorbing devices were compressed 3.2cm (1.25") on the right side and 1.6cm (.6") on the left side.

Due to the slope of the embankment, the broadside trajectory of the vehicle, and vehicle contact with the ground, the Crown Victoria began to pitch to its The upper surface of the right right. front fender impacted a 20.3cm (8") diameter cedar tree that was located 9.1m (30') outboard of the roadedge. The tree impact damage began on the fender at bumper level and extended vertically onto fender and top of the indicating a non-horizontal (00-LFMN-3)) Direct contact damage impact force. began 40.6cm (16") forward of the axle position and extended 20.3cm (8") forward to the leading edge of the fender. vehicle subsequently impacted a small diameter tree with the right front fender area. The damage was located 16.5-30.5cm (6.5-12") forward of the referenced axle position and involved 7.6cm (3") of crush on the lip of the wheel opening. The

Exterior
(Cont'd):

impacts fractured the 20.3cm (8") diameter tree 81.3cm (32") above ground level and displaced the stump to the east as the vehicle overrode the remaining trunk of the tree. The small diameter tree was completely uprooted and displaced from its location on the embankment.

The Crown Victoria continued to pitch to its right and subsequently impacted a 25.4cm (10") diameter cedar tree that was located 2.4m (8') east of the previously The impact struck 8" diameter tree. damage extended vertically from the sill of the vehicle onto the side rail and roof. Due to the slope of the embankment and the vehicle's attitude at impact, the damage was diagonally orientated on the right passenger compartment area. Direct contact damage on the right front door began 111.8cm sill area rearward of the right front axle and extended 35.6cm (14") rearward. direct contact damage on the right roof side rail began 162.6cm (64") rearward of the axle position and extended 33cm (13") rearward. Maximum crush was 83.8cm (33") located on the right roof side rail at the B-pillar. Crush values at the side rail level were as follows: $C_1 = 39.4 cm (15.5"),$ 78.1cm $C_2 =$ (30.75"), $C_3 = 83.8cm (33")$, and $C_4 = 33.3$ cm (13.1") at the right A-pillar. A second set of crush values were documented at the beltline area of the vehicle which extended from the A- to the C-pillars and were as follows: $C_1 = 20.3 \text{cm} (8"), C2 = 48.5 \text{cm} (19.1"), C_3$ = 76.7cm (30.2", C_4 = 50.8cm (20"), C_5 = 20.5cm (8.1"), C_6 = 10.2cm (4"). Maximum crush at the beltline was 76.7cm (30.2") located at the B-pillar. The crush profile of the right sill area was also documented and was as follows: $C_1 = 0 \text{cm}, C_2 = 26.9 \text{cm} (10.6),$ $C_3 = 38.1 \text{cm} (15"), C_4 = 50.8 \text{cm} (20"),$ $C_5 = 54 \text{cm} (21.25"), C_6 = 19.1 \text{cm} (7.5").$

As a result of the multiple impacts, all exterior sheetmetal components were

Exterior
(Cont'd):

damaged from either direct contact or The left front door induced buckling. was jammed closed due to the deformation to the vehicle. Rescue personnel used emergency equipment to pry open the door and subsequently cut the hinges to remove the door from the vehicle. The left rear door was jammed closed and again, rescue workers pried the door open to treat the The right side doors injured driver. were jammed due to the severe deformation to the passenger compartment area. glazing was damaged by the impacts with the exception of the left rear door glazing and its quarter window. The windshield was removed by rescue personnel during extrication of the driver.

CDC:	<u>Event N</u>	<u>lumber</u>	Object Contacted	
	1 2 3 4 5 6 7	12-RBEW-1 02-RFEN-1 00-FDMW-3 03-FZLS-1 00-RFEN-3 00-RFEN-2	Delineator post Delineator post Tree branches Small diameter tree 20.3cm (8") diameter tree Small diameter tree 50.8cm (10") diameter tree	

Repair Cost:

Total loss

Interior:

The interior of the Ford Crown Victoria was severely damaged as a result of exterior The right deformation and driver contact. passenger side impact with the 50.8cm (10") diameter tree produced severe intrusion of the Maximum intrusion right side components. involved 83.8cm (33") of lateral displacement of the right roof side rail, the roof and the upper B-pillar at the side rail juncture. Due to the severe lateral displacement of the side rail, the roof was crushed to a near vertical surface on the interior of the vehicle. mid right B-pillar and right front door panel intruded into the center front occupant space, resulting in a lateral displacement of 76.7cm (30.2").

The driver of the vehicle moved laterally to the right in response to the right side tree impacts. His knees and lower legs initially contacted the fuse box cover and the knee The fuse box cover was scuffed 53bolster. 61cm (21-24") left of center and 41-46cm (16-18") below the top surface of the instrument panel. A lower leg scuff was noted to the bolster 39-46cm (15.5-18.3") left of center and 38-43cm (15-17") below the upper panel. contacted driver's right knee The protrusion of the bolster at the base of the steering column. A scuff mark and disruption of the vinyl covering was noted 38-46cm (15-18") left of center. The lateral aspect of the driver's right knee contacted the center mid instrument panel (scuff) and the center mounted police radio equipment. Although the radios were removed prior to our inspection of the vehicle, a deformed bracket was found in indicating contact to vehicle, the components.

The driver's head and facial areas impacted the intruding vertical surface of the roof. The 11.4cm (4.5") diameter contact cracked the backer panel to the headliner and bowed the roof panel outward .6cm (.25"). The contact point was located 38-51cm (15-20") rearward of the A-pillar and 22-34cm (8.8-13.3") above the roof side rail. His right forearm impacted the right siderail 20-29cm (8-11.5") rearward of the A-pillar, depositing tissue transfers on the fabric covering. The driver's thoracic area contacted the B-pillar; however, no

Interior
(Cont'd):

evidence of contact was visible on the vinyl covering.

As the driver responded to the lateral impact forces, his upper torso slid out of the manual shoulder belt webbing. His pelvic area subsequently loaded the lap belt webbing which pulled the webbing against the crossbar on the latchplate. The webbing abraded the plastic coating on the crossbar on the back side of the component.

SUPPLEMENTAL RESTRAINT SYSTEM

The 1991 Ford LTD Crown Victoria was equipped with a supplemental driver's air bag system that deployed during the multiple impact, off-road crash sequence. The module cover opened in the conventional H-configuration at the designated tear points. The large upper flap measured 20.3cm (8") in width x 12.4cm (4.875"), while the lower flap had respective measurements of 20.3cm (8") \times 3.8cm (1.5"). The air bag was constructed of a woven nylon fabric with a neoprene liner and measured approximately 61cm (24") in diameter (seam-to-seam) in its deflated state. Two 2.5cm (1") diameter venting ports were located on the back side of the air bag (side away from driver) at the 2 and 8 o'clock positions. The bag was tethered by four internal tether straps that were sewn to the center face of the bag in a 17.8cm (7") diameter pattern with three rows of orange stitching. Members of the Highway Patrol's Multi-Disciplinary Accident Investigation Team (M.A.I.T.) properly removed the deployed air bag module from the involved patrol vehicle.

The upper center portion of the air bag was heavily stained by blood from the driver as he came to rest slumped against the deflated air bag. His left hand came to rest under the upper module flap and was pressed against the air bag and the inflator housing. As a result of contact with the hot inflator housing, the heat was transmitted through the bag which subsequently burned the dorsal surface of his left middle, ring, and fifth fingers. contact also melted the face of the bag at the 9:30 o'clock position. The melted area measured 1.3 \times 7.0cm (0.5 \times 2.75") and was horizontally located 8.3-9.5cm (3.25-3.75") above the mid point of the bag and 19.1-26cm (7.5-10.25") left of the vertical The melted area was also located 4.4-10.2cm (1.75centerline. 4.0") inboard and toward the driver from the peripheral seam. Upon magnification of the melted area, tissue fragments and blood were found fused to the nylon fabric.

During Calspan's on-site investigation, a representative from TRW (the company that manufactured the air bag module assembly) was present to inspect and dismantle the deployed module assembly for

possible defects. Numerous members of the Highway Patrol were also present. The TRW representative thoroughly discussed the deployment process of the module and used several models to identify the internal components. During his discussion, he stated that the air bag fabric had a melting point of 154-177° C (310-350° F) and that the nylon/neoprene material would not support a flame. The inflator housing and its internal filtering screens were manufactured from stainless steel. The TRW representative stated that the inflator module reaches deployment temperatures of 300° C (578° F) and cools slowly due to its isolated, non-vented location within the steering assembly.

The module assembly was transported to a state operated laboratory where a machinist drilled and removed the twelve (12) retaining rivits that attached the air bag and inflator module to the stamped mounting bracket. The air bag and the exterior of the inflator module were thoroughly inspected. The internal surface of the air bag and a tether strap were melted from contact with the hot inflator module. The face of the inflator module above the radial inflation ports contained deposits of melted neoprene and woven nylon air bag material. These melted transfers, combination with the melted air bag which contained tissue and blood deposits, confirmed the source of the burns to the driver's left hand. Additional exterior inspection of the inflator assembly did not yield evidence of component failure. There was no damage or burn-through of the module or filtering screens; therefore, it was agreed upon that further dismantling of the inflator assembly was not necessary. The involved air bag module was identified by the following bar-coded numbers that were affixed to the back side of the mounting bracket:

and

COLLISION SEQUENCE

Pre-Crash:

The driver of the marked police 1991 Ford LTD Crown Victoria was on routine patrol and was exiting a parking lot of a local service station to proceed in an easterly direction on the mountainous two-lane state route. As he was about to exit the parking lot, he observed a westbound vehicle traveling at a high rate of speed. The driver activated the vehicle's emergency equipment (flashing lights and siren) and initiated a U-turn to pursue the westbound vehicle.

During the pursuit, the driver of the Crown Victoria had negotiated a moderate left curve; however, as the vehicle exited the curve, it drifted wide onto the right (north) shoulder. Based on the physical evidence at the crash scene, the initiated counterclockwise driver a steering input and braked in an attempt to maintain control of the vehicle. right side tires of the vehicle departed the paved right shoulder onto the loose cinder material that bordered shoulder. As a result the vehicle broke traction and initiated a counterclockwise The right rear quarter panel impacted a delineator post that located at the edge of the shoulder. minor severity impact did not alter the trajectory of the vehicle as it crossed the travel lanes. The vehicle deposited four wheel centrifugal tire marks on the asphalt road surface. The investigating officer documented approximately 76.2m (250') of centrifugal tire marks prior to the vehicle crossing the left (south) white edgeline. At the time of our inspection of the crash scene, which occurred nearly 3 months after the crash, 42.7m (140') of tire marks were still visible on the asphalt road surface. As the vehicle crossed the south (left) edgeline of the roadway, it had rotated approximately 80° in a CCW direction.

The Highway Patrol computed an initial speed of 119.1 KPH (74 mph) for the vehicle as it exited the curve, using the critical curve formula.

The right front fender of the Crown Victoria impacted and dislodged a steel delineator post from the cinder and earth south shoulder. The impact resulted in minor damage to the vehicle and produced an impact force of 2 o'clock. Again, the minor severity impact with the delineator did not alter the trajectory of the vehicle.

The Crown Victoria exited the shoulder area in a near-broadside orientation and became airborne as it traversed an earth embankment that paralleled the roadway. The embankment had a negative slope of approximately 45°. As the vehicle

Crash:

traveled down the embankment, the frontal and hood areas contacted overhanging tree branches from a tree that was located 7.6m (25') outboard of the roadedge. The impact produced minor damage to the vehicle as it continued on a broadside trajectory. The front bumper and right push bumper bar impacted several small diameter trees as the undercarriage subsequently contacted the ground, which displaced the front structure upward.

The vehicle began to pitch to its right as its center of gravity continued in a southwesterly direction. The upper surface of the right front fender and hood impacted a 20.3cm (8") diameter tree that was located 9.1m (30') outboard of the roadedge. At impact with the tree, the vehicle had traveled approximately 23m (75') along the embankment. Due to the lateral pitching of the vehicle, the resultant direction of force was nonhorizontal (00 o'clock). The vehicle fractured the tree 81.3cm (32") above ground level and overrode the remaining trunk, displacing the roots of the tree.

The right passenger compartment area of the vehicle subsequently impacted a 25.4cm (10") diameter cedar tree that was located 2.4m (8') east of the struck 20.3cm (8") diameter tree. At impact with the tree, the vehicle was pitched slightly to its right and struck the tree with its right roof, siderail, door and Maximum crush was 83.8cm sill areas. (33") located on the siderail at the Barea. Again, the vehicle fractured the 25.4cm (10") diameter tree (6′3") above the ground deflected the remaining stump to the east as it overrode the tree trunk. The force of the impact hurled the upper portion of the tree into a wooded area where it came to rest 6.1m (20') to the east of its struck location.

The supplemental driver's air bag system deployed during the multiple impact crash sequence. Although unconfirmed, the SRS probably deployed early in the sequence

as the front bumper and undercarriage impacted the ground and several small diameter trees. All impacts involved force directions that were primarily lateral (within the 2-3 o'clock sector) and estimated velocity changes that were equivalent to the required threshold of 13-19 KPH (8-12 mph) necessary for deployment.

Post-Crash:

Final Rest -

The Ford Crown Victoria came to rest on its wheels at the base of the embankment, facing in a southerly direction. At rest the vehicle was approximately 6.1m (20') east of the struck 25.4cm (10") diameter tree. Due to the slope of the embankment, the vehicle was barely visible from the roadway.

Driver Activities -

The driver lost consciousness as a result of a head impact with the intruding roof. He slumped forward over the steering assembly and came to rest with his left hand against the air bag inflation module. Passing motorists noted the dust in the area of the crash and observed the They rushed down the vehicle at rest. embankment and pushed the driver into the seatback as he was bleeding profusely from the nose. Another motorist, who stopped at the scene, drove to a local store and telephoned for police and rescue assistance.

Police Activities - Several police units from the County Sheriff's Department and the Highway Patrol responded to the call and arrived on-scene. The investigating officer received notification of the crash and arrived 47 minutes following the crash.

Rescue Activities - The local fire department and emergency medical personnel responded to the scene. They initially treated and evaluated the driver in the vehicle. He had regained consciousness, but was unaware of what had occurred. The requested the service of a helicopter transport to a trauma center in CA.

The driver was removed from the vehicle and carried up the embankment to an awaiting ambulance. He was transported to a remote helicopter landing site and flown to the trauma center where he was admitted for treatment of his injuries.

Scene Clearance - Following the removal and subsequent transport of the driver and the on-scene police investigation, the vehicle was winched up an embankment and towed from the scene.

HUMAN FACTORS/OCCUPANT DATA

Driver: 54 year old male

Height: 179.1cm (70.5")

Weight: 99kg (220 lbs.)

Occupation: Police officer

Active Restraint 3-point lap and shoulder belt system

System Usage:

Usage Source: Vehicle inspection, police report

Eyeqlasses: None

Vehicle Familiarity: Not assigned patrol vehicle, has

driven similar vehicles daily over

the past year

Route Familiarity: Daily, routine patrol area

Trip Plan: In pursuit of a speeding vehicle

Manner of Transport Ambulanced from the scene to an

From Scene: emergency heliport then flown by helicopter to a trauma center in

, CA

Type of Medical Admitted to the hospital for 24 days

Treatment: for treatment of his injuries, readmitted for follow-up surgeries

DRIVER INJURIES

Injury	Severity (OIC/AIS)	Source
Fractured right ribs 2-9 with flail chest and right hemothorax	Severe (CRFS-4)	Intruding right B- pillar
Right pulmonary contusion	Serious (CRCP-3)	Intruding right B- pillar
Full thickness thermal burns of the dorsal aspect of the left middle, ring, and 5th fingers with loss of the extensor tendons and devascularization of part of the bones within the digits	Minor (WLBI-1)	Contact against the air bag inflator module
Comminuted fracture of the right radial head	Serious (RRFS-3)	Intruding right roof side rail
Fracture of the right proximal ulna	Moderate (RRFS-2)	Intruding right roof side rail
Closed head injury with loss of consciousness and residual cognitive deficits (amnesia), negative head CT	Moderate (HWKB-2)	Intruding roof panel
Non-displaced fracture of the right zygoma	Moderate (FRFS-2)	Intruding roof panel
T_{12} spinous process fracture	Moderate (BSFS-2)	Probable rebound contact into left front door panel or seatback
Right clavicle fracture	Moderate (SRFS-2)	Intruding right roof side rail

Injury	Severity (OIC/AIS)	Source
Displaced nasal fracture	Moderate (FCFS-2)	Intruding roof
Nasal laceration	Minor (FCLI-1)	Intruding roof and headliner
Right earlobe laceration	Minor (HRLE-1)	Intruding roof and headliner
Superior scalp laceration	Minor (HSLI-1)	Intruding roof and headliner
Dislocated (loosened) teeth nos. 5-8	Minor (FIDS-1)	Intruding roof panel

DRIVER KINEMATICS

The driver of the Ford Crown Victoria was in a normal seated position pre-crash with both hands on the steering wheel while in pursuit of the speeding vehicle. He was properly wearing the manual 3-point lap and shoulder belt system. Rstraint usage was supported by driver interview data, blood stains on the upper shoulder belt webbing, and from load induced abrasions on the inner plastic surface of the latchplate. The driver stated that he routinely drove the Crown Victoria with the seat adjusted to a midtrack position and the seatback set to the most vertical position. He added that the tilt steering wheel was adjusted to the center position.

At impact with the trees, the supplemental driver's air bag system deployed. The driver was probably slightly out of position to his right due to the pre-crash counterclockwise rotation of the vehicle. He was further displaced to his right by each tree impact as he responded to the lateral impact forces. The driver's upper torso slid out of the manual shoulder belt webbing while his pelvic area loaded the lap belt portion of the 3-point system. loading force against the lap belt pulled the webbing through the latchplate which abraded the inner plastic surface of the latchplate's fixed crossbar. The driver's knees contacted the fuse box cover and the knee bolster which scuffed the contacted components. His right knee contacted the bolster at the protrusion for the steering column and disrupted the vinyl covering of the These contacts did not result in injury to the driver's bolster. lower extremities. The lateral aspect of the driver's right knee impacted the left edge of the lower mid instrument panel (scuff mark) and the center mounted police radio equipment. The radio equipment was removed from the vehicle prior to our inspection; however, a bracket for the equipment was deformed to the right,

indicating driver contact. Again, no injury resulted from the lower extremity contact.

The driver's right forearm flailed upward with respect to his seated position and impacted the intruding right roof siderail 20.3-29.2cm (8-11.5") rearward of the upper A-pillar. transfers evidenced the contact which resulted in a comminuted fracture of the right radial head and a fracture of the right proximal ulna. The driver's right shoulder subsequently impacted and scuffed the intruding right roof side rail immediately forward The contact fractured the mid-portion of the of the B-pillar. driver's right clavicle. His right lateral chest area impacted the intruding right upper B-pillar and possibly the struck tree as the Although no contact vehicle crushed to maximum engagement. evidence was visible on the vinyl jacket covering the B-pillar, the driver sustained fractured right ribs 2-9 with flail chest, right pneumothorax, and a right pulmonary contusion.

The driver's head impacted the intruding headliner and roof panel on the right side of the vehicle. Due to the non-horizontal impact with the tree, the roof was displaced to a vertical orientation over the right front seated position. The head contact was located 36.8-50.8cm (14.5-20") rearward of the upper right Apillar and 27.9cm (11") above the side rail. The driver's head cracked the backer to the headliner and bowed the roof panel approximately 0.6cm (.25") outward. Faint tissue transfers were visible on the headliner material that surrounded the 11.4cm (4.5") diameter contact. As a result of the impact, the driver sustained a laceration of the superior scalp, a right earlobe laceration, a nasal laceration with a displaced fracture of the nasal bone, a fracture of the right zygoma, and a closed head injury with loss of consciousness and residual cognitive deficits (amnesia). addition to the head and facial injuries that were identified on the medical reports, the driver stated that he sustained minor dislocations (loosened) of the right upper teeth, nos. 5-8. dislocated teeth were attributed to the head and facial contact with the intruding roof.

The driver subsequently rebounded across the interior of the vehicle into the left front seatback and/or left front door panel. He sustained a fracture of the spinous process of T_{12} from the probable rebound contact. There was no contact evidence to the components from his rebound trajectory. Prior to coming to rest within the vehicle, the driver's left hand moved under the upper air bag module cover flap as the driver slumped forward in an unconscious state against the steering wheel and the air bag module assembly. The dorsal aspect of his left middle, ring, and fifth fingers were pressed against the deflated air bag and the hot inflation module. The heat from the stainless steel inflation module melted the face of the bag and an internal tether strap at the 10 o'clock position and was transmitted into the driver's

fingers, which resulted in full thickness thermal burns with loss of the extensor tendons and devascularization of part of the bones within the digits.

Several passing motorists noted the dust from the crash and observed the vehicle at final rest. They rushed to the vehicle and found the driver slumped against the steering wheel, bleeding profusely from the nasal injuries onto the deflated air bag. The motorists pulled the driver back into the seatback which disengaged his hand from the air bag module assembly.

SELECTED PRINTS





Pre-crash Trajectory Of The Ford Crown Victoria.





Vehicle's Rotational Trajectory Across The Travel Lanes, Beginning Of The Right Side Centrifugal Tire Marks.





Beginning Of The Left Side Centrifugal Tire Marks.



Vehicle Departs Left Roadedge In A Near Broadside Orientation.



Vehicle Travels Down Earth Embankment.



Struck Tree Branches
And 20.3cm (8") and 25.4cm (10") Diameter Cedar Trees.



Remainder of Struck Trees.



Final Impact Sequence Against The 25.4cm (10") Diameter Tree.



Struck And Displaced Delineator Post.



Mid Section Of The Struck And Fractured 25.4cm (10") Diameter Tree.



Lookback View Of The Crash Scene.



Lookback View Up The Earth Embankment.



Lookback View Of The Vehicle's Roadway Departure.



Frontal View Of The Ford Crown Victoria.



Tree Impact Damage To The Right Bumper Push Bar.



Left Front Three-Quarter View.



Left Side View.



Left Rear Three-Quarter View.



Rear View.



Right Rear Three-Quarter View.



Right Side View.



Primary Impact Damage To The Right Passenger Compartment Area.



Overhead View Showing The Extent Of Crush.



Tree Impact Damage To The Right Front Fender Area.



Right Front Three-Quarter View.



Overall View Of The Deployed Air Bag.



Melted Area Of The Deployed Air Bag.





Additional Views Of The Melted Area Of The Air Bag.



Upper Air Bag Module Flap.



Perpendicular View Of The Module Flaps.



Interior View With The Air Bag Module Assembly Removed.



Driver's Trajectory And Contact Points.





Knee And Lower Leg Contact Points To The Knee Bolster And The Lower Panel



Driver's Active 3-Point Belt System.



Belt Loading Abrasions To The Plastic Coating On The Latchplate.



Probable Right Leg Contact To The Center Mounted Radio Equipment (Removed).



Head, Arm, And Shoulder Contact Points To The Intruding Roof And Side Rail.



Head Contact To Headliner And Roof.



Right Shoulder And Arm Contacts To The Roof Side Rail.



Apparent Tissue Transfer From Right Forearm Contact
To Roof Side Rail.



Location Of Burn With Respect To The Center Of The Air Bag.





Closeup Views Of The Burned Area.



Location Of Burn With Respect To The Peripheral Seam.



View Of A Melted Internal Tether Strap Through The Left Venting Port.





Backside Of The Removed Module Assembly.



Removed Inflator Assembly From The Retaining Plate.



Melted Bag Material On The Face Of The Inflator.





Views Of The Radial Inflation Ports Of The Inflator Assembly.





Additional Views Of The Radial Inflation Ports.





Internal Views Of The Melted Areas Of The Air Bag.

"GRAPHIC" PHOTOGRAPHS AND IMAGES

The following "GRAPHIC" Photographs and Images have been removed from this c	case.
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If you would like a copy of these photographs and/or images please write to:

MARJORIE SACCOCCIO VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER 55 BROADWAY CAMBRIDGE, MA 02142

In the body of your request please include the case, photograph and image number(s).



Sectional View Of A Similar TRW Inflator.

SLIDE INDEX

Slide No(s).	<u>Description</u>
1	Accident schematic Accident schematic AREMOVED FOR SANITIZATION
2	Driver injury mannequin
3,4	Pre-crash trajectory of the police vehicle
5	Right rear tire begins to mark
6	Right front and left rear tires begin to mark
7	Left front tire begins to mark
8	Vehicle departs left roadedge in a near broadside orientation
9	Vehicle traverses embankment and contacts tree branches
10	Struck trees
11	Struck tree that resulted in severe right side damage to vehicle
12	Final rest position of vehicle
13	Section of struck tree, impacted tree in foreground
14	Lookback view of vehicle's trajectory
15	Frontal view of the Ford Crown Victoria
16	Left front three-quarter view
17	Left side view, LF door removed by rescue personnel
18	Left rear three-quarter view
19	Rear view
20	Right rear three-quarter view
21	Right side view
22	Primary impact damage to right side area
23	Longitudinal view showing the extent of crush

SLIDE INDEX (CONT'D.)

Slide No(s).	Description
24	Right front three-quarter view
25	Overall interior view of the driver's trajectory and contact points
26	Deployed driver's air bag
27	Steering wheel assembly with module removed
28	Burned (melted) area of air bag with tissue from driver's hand contact
29	Location of burn mark with respect to peripheral seam and vent port
30	Perpendicular view of the module flaps
31,32	Driver's knee/lower leg contacts to the knee bolster
33,34	Driver's head, right shoulder and forearm contacts to the intruding side rail and headliner
35	Tissue transfer from right forearm contact
36	Right shoulder fabric transfer/impression on headliner
37	Driver's head contact to headliner
38	Slight deformation to upper steering wheel rim
39	Blood stain on shoulder belt webbing
40	Belt abrasions to the latchplate

MISSING SLIDES

THE FOLLOWING SLIDES ARE NOT INCLUDED IN THIS CASE:

SLIDE NUMBER(S)

#1	
*2	



















































Availab



























APPENDIX A

Police Accident Report

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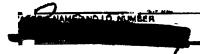
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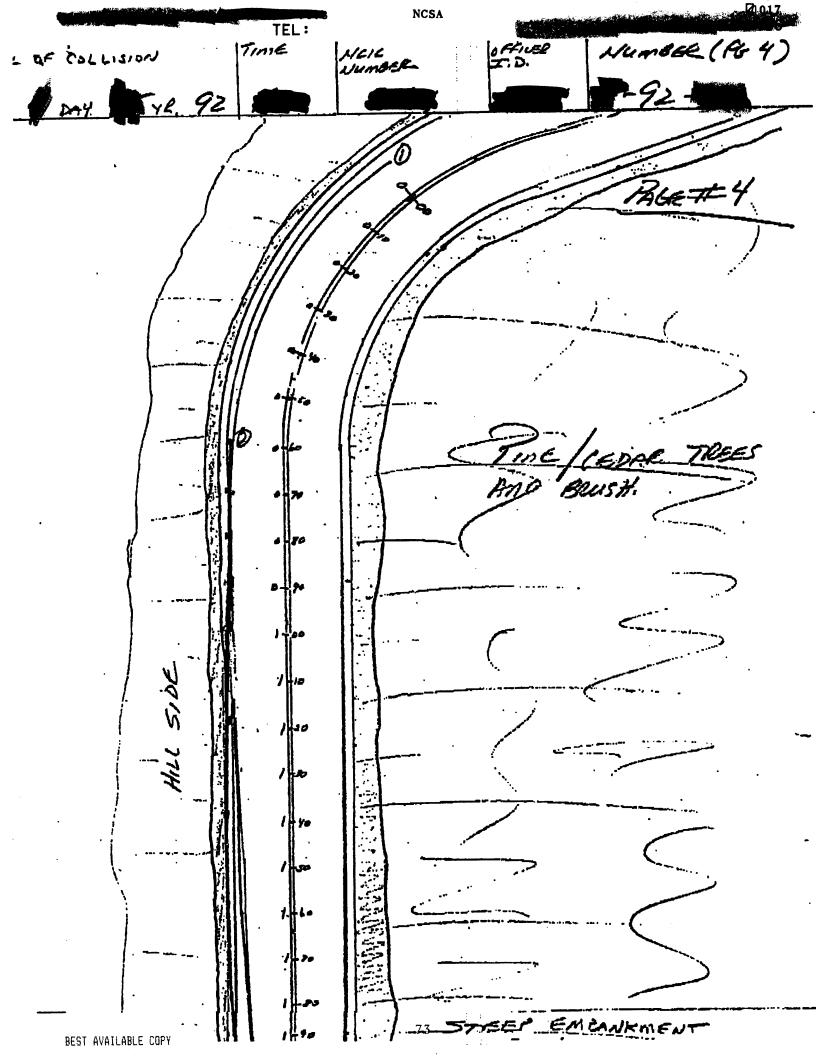
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APPENDIX B

Air Bag Supplement

Dup. Cols. 1-8 Module A B from prior card	Form	at Q 1 AIRBAG SUPPLEMENT	AB-1
ACCIDENT SUMMARY		AIRBAG VEHICLE INSPECTION	
ACCIDENT DATE 192		DATE VEH. INSPECTED/	<u>9</u> 2
POLICE INVESTIGATED (1,2,9)*		REASON VEHICLE NOT INSPECTED	
City County GENERAL LOCALITY (1) Freeway, Limited Access (2) Urban (City)	<u>4</u> _	(0) Not Required (1) Inspection Completed (2) Cannot be Located** (3) Repaired or Destroyed** (5) Refual or Impounded** (7) Other* **Specify:	
(3) Urban-Rural (mixed) (4) Rural, Fields		IMPACT DATA OBTAINED	7
CONFIGURATION (First Harm) (0) Struck Object or Pedestrian (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe-Same Direction (6) Sideswipe-Opposite Direct. (7) NonColl:eg Fell from Veh (8) NonImpact Deployment (9) Unknown FIRE INVOLVED (0) None (1) AirBag Vehicle (2) Other Vehicle (3) Both Vehicles (9) Unknown NUMBER: VEHICLES INVOLVED (8)=8 or more	<u>о</u> -	(0) No Data Obtained (1) CDC Only (2) Crush Profile Only (3) Trajectory Data Only (4) CDC and Crush Profile (5) CDC and Trajectory (6) Crush and Trajectory (7) CDC, Crush & Trajectory BASIS OF DELTA-V (0) Not Computed (Unknown Why) (1) CRASH - Damage Only (2) CRASH - Damage+Trajectory (3) Missing Vehicle Algorithm (4) Yielding Object Algorithm (5) Unknown Basis (6) One Vehicle Beyond Scope (7) Collision Beyond Scope (8) Insufficient Data	7
PERSONS INVOLVED INJURED PERSONS	<u> </u>	WEHICLE HISTORY HAS AIRBAG VEHICLE BEEN IN ANY PRIOR IMPACTS (1,2,9)*	2
OTHER VEHICLE: MAXIMUM AIS PRIME/DEPLOY IMPACT W AB VEH: EVENT NUMBER CDC		HAS ANY PRIOR MAINTENANCE/SERVICE BEEN PERFORMED ON SYSTEM(1,2,9)* *Describe:	
TOTAL DELTA-V		AIRBAG VEHICLE: FLEET POUCE	
Model Year, Make, Model, Body Ty	pe:	VINZEACPZZGSM MILEAGE	\ X
* (1)=Yes, (2)=No, (9)=Unknown		DRAFT -	

SYSTEM READINESS LAMP (In Instrument Cluster)		AIRBAG VEHICLE FIRST HARMFUL EVENT 33
PRE-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) Inoperative (9) Unknown	1	(01) Fire or explosion (02) Immersion (03) Gas Inhalation (04) Fell from vehicle (05) Injured in vehicle (06) Other moncollision (specify):
DRIVER'S REPORT OF PRE-IMPACT FLASHING (00) No Flashing Reported (01) Continuous Flashing (02) >Number of Flashes (11) (12) Constant Light (19) Flashing, Unkn Number	00	(07) Overturn (08) Jackknife with intraunit damage Collision With: (09) Pedestrian (10) Pedalcyclist (11) Railway train (12) Animal (13) Motor vehicle in transport (same roadway) (14) Motor vehicle in transport (other roadway)
(88) Not App (system removed) (99) Unknown PERIOD OF PRE-IMPACT FLASHING (0) No Flashing (1) Same Day as impact (2) Prior Day (3) Prior Two Days (4) Prior Week (5) Prior Month (6) Over One Month (9) Unknown	0	(15) Parked motor vehicle (16) Other type nonmotorist (specify): (17) Thrown or falling object (18) Boulder Collision with Fixed Object: (20) Building (21) Impact attenuator/Crash Cushion (22) Bridge pier or abutment (23) Bridge parapet end (24) Bridge rail (25) Guardrail (26) Concrete traffic barrier (27) Median barrier (28) Other longitudinal barrier (specify): (29) Highway/Traffic sign post
POST-IMPACT LAMP CONDITION (1) Functioning/ProvedOut (2) Inoperative (9) Unknown POST-IMPACT FLASHING	_2	(30) Overhead sign support (31) Luminaire/Light support (32) Utility pole (33) Other post, pole, or support (specify): DELINEAT OR (34) Culvert (35) Curb (36) Ditch (37) Embankment-earth (38) Embankment-rock, stone or concrete
(00) No Flashing (01) Continuous Flashing (02) >Number of Flashes (11) (12) Constant Light (19) Flashing, Unkn Number (88) Not Appl (removed) (99) Unknown Tooferative	-88_	 (39) Fence (wooden, wire, chain link, etc.) (40) W'all (stone, rock, metal, etc.) (41) Fire hydrant (42) Shrubbery (43) Tree (44) Other fixed object (specify): (45) Pavement surface irregularity (pothole, grooved, grates) (99) Unknown

IRBAG VEHICLE IMPACT-DAMAGE		AIRBAG SUPPLEMENT	AB-3
VEHICLE ROLE 10) Non-collision (1) Striking Unit (2) Struck Unit (3) Both Striking and Struck (9) Unknown 14ANNER OF LEAVING SCENE (1) Driven (2) Towed-due to damage (3) Towed - not for damage (4) Towed - details unknown (5) Abandoned (9) Unknown NUMBER OF IMPACT EVENTS (8) 8 or more, (9) Unknown ROLLOVER (0) No Rollover (1) First Event (2) Subsequent Event (3) Yes, UnknownEvent (9) Unknown VERRIDE/UNDERRIDE (1) No over/underride (1) Override - 1st CDC (3) - Other CDC (4) Underride - 1st CDC (6) - Other CDC	2	FIRST AIRBAG VEHICLE IMPACT: CONFIGURATION (0) Struck Object or Pedestrian (1) Rear-End (2) Head-On (3) Rear-to-Rear (4) Angle (5) Sideswipe - Same Direction (6) Sideswipe-Opposite Direct. (7) NonColi:eg Fell from Veh (8) NonImpact Deployment (9) Unknown CDC	AB-3
(4) Underride - 1st CDC (6) - Other CDC (9) Unknown AIRBAG VEHICLE DAMAGE CODES: (1) Yes, DAMAGED (2) No Damage		(2) Head-On	
(9) Unknown LEFT FRONT FENDER DAMAGE RIGHT FRONT FENDER DAMAGE	1	OBJECT CONTACTED: TREE	
TRONT BUMPER E.A. STATUS: Left (1) Normal Right (2) Extended (3) Partial Compression (4) Complete Compression (5) Not Applicable (9) Unknown	3 3	NOTES: AIR BAG DEPLOYED DURING C SPECIFIC EVENT WAS UNKN	CRASH,
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AIRBAG SYSTEM DAMAGE

CODES:

- (1) Yes, Damaged*
- (2) No, Intact
- (8) Not App. (Removed)
- (9) Unknown

AIRBAG MODULE

SENSORS: Left Front

Center Front

Right Front

Rear, Cowl

DIAGNOSTIC MODULE

WIRING

KNEE DIVERTER

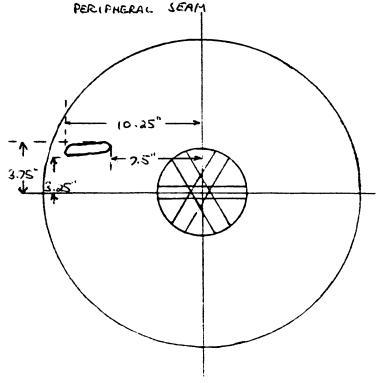
INDICATION OF DISCONNECTED OR LOOSE ELECTRICAL CONNECTORS

CONDITION OF DEPLOYED BAG

- (1) Bag Intact
- (2) Split or Torn*
- (3) Cut by Object in impact*
- (4) Cut after Accident*
- (5) Other (e.g., burned)*
- (8) N/A (not deployed)
 (9) Unknown
- *DESCRIBE System and Bag Damage:

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

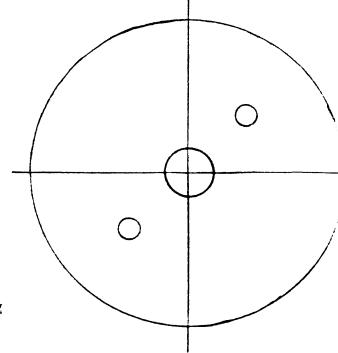
BURN ON FACE OF BAG 1.75-4.0' INBOALD OF



FRONT

воттом

TOP



OCCUPANTS/DRIVER				AIRBAG	SUPPLEMENT	AB-S
OCCUPANTS of AIR	BAG CAR		NOTES:			
NUMBER OF OCCUPAN (8) 8 or m NUMBER OF INJURED	ore	ELE <u> </u>				
MAXIMUM AIS IN AI (0) No Injury (1-6) AIS Severit (7) Injured, Un (9) Unknown	у					
DRIVER AGE 54	SEX MALE					
NUMBER OF DRIVER	INJURIES	14				
SOURCE OF BEST IN	JURY DATA	2				
(2) Hospital Me (3) Emergency F (4) Private phy (5) Lay Coroner (6) EMS Personr (7) Interviewee (8) Police (9) Unknown	Room only ysician,Clir Report nel					
MAXIMUM AIS BY BO	DDY REGION					
REGION Head/Neck/Face	MAX AIS	CONTACT _53				
Chest	4	_3 3				
Abdomen	-					
Leg/Hips						
Other (Arms)	3_	45				
DRIVER MAXIMUM	<u> 4</u>	33	-			
EJECTION: Extent	NONE					
Portal	-MA					

EVIDENCE: POLICE REPORT WITHESS STATEMENTS, ABRASIONS ON INSIDE PLASTIC SURFACE OF LATCHPLATE FROM BELT LOADING BLOOK STAINS ON UPPER BELT	DRIVER-PASSENGER	AIRBAG	SUPPLEMENT	AB-6
PLATIC CURROC OF LATCHPLATE FROM BEST LONGING BLOCK STAINS ON UPPER REST DRIVER POSTURE: Any Comments Recorded (1) Yes, (2) No	DRIVER BELT USAGE: (1) Used (2) No	t Used (9)) Unknown	
DRIVER POSTURE: Any Comments Recorded (1) Yes, (2) No L Describe driver's posture and position on seat including specific comments on head, torso, buttocks, legs and feet. Also note hand and arm position. Did driver brace before crash? Describe: NORMAL SEATED FOSITION PRE-CRASH PRODUCTY OUT OF PASITION QUE TO COM ROTATION AND TANTIAL TREE TMPACTS DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No AND TANTIAL TREE TMPACTS DID HOLDING TO COMMENTS: Comments Recorded (1) Yes, (2) No AND TANTIAL TREE TMPACTS DESCRIPTION DESCRIPTION PRIVER COMMENTS: Comments Recorded (1) Yes, (2) No AND TANTIAL TREE TMPACTS DESCRIPTION DESCRIPTION PEMEMBER THE DAY OF THE CRASH PRESSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	Evidence: POLICE REPORT WITHELL STATEMENTS	ABRASIONS	ON INCIDE	
Describe driver's posture and position on seat including specific comments on head, torso, buttocks, legs and feet. Also note hand and arm position. Did driver brace before crash? Describe: **DORMARL SEATED POSITION PRE-CRASH PROBAGLY OUT OF PASITION OUE TO CCW ROTATION AND TRIEF TMPACTS **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) N		LORDING B	LOOK STAINS	<u>o</u> ~
On head, torso, buttocks, legs and feet. Also note hand and arm position. Did driver brace before crash? Describe: **DOSCHOP** (SCATED POSITION) PRE-CRASH PROPAGLY OUT OF POSITION ONE TO CCW ROTATION AND TRITIER TMPACTS **DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No **Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: **DRIVER COMMENTS:** Comments Recorded (1) Yes, (2) No **PRIVER COMMENTS:** Comments Recorded (1) Yes, (2) No **DRIVER COMMENTS:** Comments Recorded (1) Yes, (2) No **PRIVER COMMENTS:** Comments Recor	DRIVER POSTURE: Any Comments Record	ed (1) Yes,	(2) No	
DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No 2 Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the Impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No 2 Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? DID TO COUNCIDUS FOLIOWING THREET WITH AMNESIA, DRIVER DOESN'T PEMEMBER THE DAY OF THE CASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	on head, torso, buttocks, legs and feet. Al			
DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No 2 Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No 2 Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe: DICONSCIOUS FOLIUMIC THEAT WITH AMNESIA, DRIVER DOESUT PEMEMBER THE DAY OF THE CRASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	NORMAL SEATED POSITION PRE-CRASH	PROBABLY OUT	OF PASITIO	N.
Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe:	DUE TO COW ROTATION AND INTIAL	TREE IMPA	STS	
Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe: DUCONSCIOUS FOLLOWING INFACT WITH AMNESIA, DRIVER DOES OF PEMEMBER THE DAY OF THE CASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown				
Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe: DICONSCIOUS FOLLOWING INFACT WITH AMNESIA, DRIVER DOES OF PEMEMBER THE DAY OF THE CASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown				
Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelry play any role?: DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe:				
DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe: UNCONSCIOUS FOLDWING, THERET WITH AMNESIA, DRIVER DOESN'T PEMEMBER THE DAY OF THE CASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	DDINED EADERCH ARIECTS. Commants Decembed (11 Yes (2)	Al o	
Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe:	Was driver wearing contact lenses or eyegla object at the time of the impact (packages	asses? Or ho on lap, pipe	Iding any for , food, bott	le,
PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	Was driver wearing contact lenses or eyegla object at the time of the impact (packages	asses? Or ho on lap, pipe	Iding any for , food, bott	le,
PEMEMBER THE DAY OF THE CRASH PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects,	asses? Or ho on lap, pipe or jewelry p	Iding any for , food, bott lay any role	le,
PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was exestraint system? Did driver offer any comments.	asses? Or ho on lap, pipe or jewelry p (1) Yes, (2) equipped with ments on smo	Iding any for, food, bott lay any role No a supplement ke, noise, e	1e, ?: 2 tal tc.?
PASSENGER-AIRBAG CONTACT (1) Yes, (2) No, (9) Unknown	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was expectaint system? Did driver offer any compide the driver comment on the airbag as a restraint system?	(1) Yes, (2) equipped with ments on smorestraint sys	Iding any for, food, bott lay any role No a supplement ke, noise, etem? Descri	1e, ?: 2 tal tc.?
	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was exestraint system? Did driver offer any compide the driver comment on the airbag as a restraint system? TAPACT WITH	(1) Yes, (2) equipped with ments on smorestraint sys	Iding any for, food, bott lay any role No a supplement ke, noise, etem? Descri	1e, ?: 2 tal tc.?
•	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was erestraint system? Did driver offer any com Did the driver comment on the airbag as a restraint system? TAPACT WITH	(1) Yes, (2) equipped with ments on smorestraint sys	Iding any for, food, bott lay any role No a supplement ke, noise, etem? Descri	1e, ?: 2 tal tc.?
Describe: NO PASSENGER	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was erestraint system? Did driver offer any com Did the driver comment on the airbag as a restraint system? TAPACT WITH	(1) Yes, (2) equipped with ments on smorestraint sys	Iding any for, food, bott lay any role No a supplement ke, noise, etem? Descri	1e, ?: 2 tal tc.?
	Was driver wearing contact lenses or eyegla object at the time of the impact (packages cigarette, etc.)? Did any lenses, objects, DRIVER COMMENTS: Comments Recorded (Was the driver aware that the vehicle was erestraint system? Did driver offer any com Did the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment on the airbag as a result of the driver comment of the driver com	esses? Or ho on lap, pipe or jewelry p (1) Yes, (2) equipped with ments on smorestraint sys	Iding any for, food, bott lay any role No a supplement ke, noise, etem? Descri	1e, ?:

APPENDIX C

NASS Vehicle Forms

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration GENERAL	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum 9 2 1 3. Vehicle Number 0	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown
VEHICLE IDENTIFICATION	
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx)
5. Vehicle Make (specify): Ford Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	(95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source:
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
6. Vehicle Model (specify): ΔΤΛ ΣΡΌΜΑ ΟΙΣΤΟΡΙΑ ΡΟΊζΕ ΟΕΗΙ ΕΣΕ Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	13. Speed Limit (00) No statutory limit Code posted or statutory speed limit (99) Unknown
7. Body Type Note: Applicable codes may be found on the back of this page.	14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup)
8. Vehicle Identification Number	(04) Braking (lockup unknown)
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nine's	(05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left
OFFICIAL RECORDS	(12) Accelerating and steering right
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(97) No driver present (98) Other action (specify): (99) Unknown
Code to the nearest mph (NOTE: 00 means	4 15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance
less than 0.5 mph) (97) 96.5 mph and above (99) Unknown	(98) Other accident type (specify): (99) Unknown
**** SKIP TO VARIABLE GV37	IF GV07 DOES NOT EQUAL 01-49 ****

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 10,000 lbs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravado, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 10,000 lbs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 10,000 lbs GVWR)
- (23) Van based motorhome (≤ 10,000 lbs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 10,000 lbs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500.)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 10,000 lbs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 10,000 lbs GVWR)

- (60) Step van (> 10,000 lbs GVWR)
- (61) Single unit straight truck (10,000 lbs < GVWR ≤ 19.500 lbs)
- (62) Single unit straight truck (19,500 lbs < GVWR ≤ 26,000 lbs)
- (63) Single unit straight truck (> 26,000 lbs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

OCCUPANT RELATED	24. Rollover
16 Driver Presence in Vehicle	(0) No rollover (no overturning)
16. Driver Presence in Vehicle (0) Driver not present	
(1) Driver present	Rollover (primarily about the longitudinal axis)
(9) Unknown	(1) Rollover, 1 quarter turn only
	(2) Rollover, 2 quarter turns
17 Number of Occupants This Vahisla	(3) Rollover, 3 quarter turns
17. Number of Occupants This Vehicle	(4) Rollover, 4 or more quarter turns (specify):
for this vehicle	
(97) 97 or more	(5) Holloverend-over-end (i.e., primarily
(99) Unknown	about the lateral axis)
	(9) Rollover (overturn), details unknown
18. Number of Occupant Forms Submitted (7)	•
10. Homber of occupant Forms Submitted	OVERRIDE/UNDERRIDE (THIS VEHICLE)
VEHICLE WEIGHT ITEMS	
40 74 11 10 1 17 11 11 11 11 11 11 11 11 11 11 11 1	25. Front Override/Underride (this Vehicle)
19. Vehicle Curb Weight O 3, 8 0 0	26 Deep Overside (III-deepide (Alice Vol.) 1.)
3 <u>822</u> Code weight to nearest 100 pounds.	26. Rear Override/Underride (this Vehicle)
(010) Less than 1050 pounds	(0) No override/underride, or
(135) 13,500 pounds or more	not an end-to-end impact
(999) Unknown	
Source:	Override (see specific CDC)
	(1) 1st CDC
	(2) 2nd CDC
20. Vehicle Cargo Weight, 0 0	(3) Other not automated CDC (specify):
100 Code weight to nearest 100 pounds. (00) Less than 50 pounds (97) 9,650 pounds or more	+
(00) Less than 50 pounds	Underride (see specific CDC)
(97) 9,650 pounds or more	(4) 1st CDC
(99) Unknown	(5) 2nd CDC
DECONCEDIOTION DATA	(6) Other not automated CDC (specify):
RECONSTRUCTION DATA	
21. Towed Trailing Unit	(7) Medium/heavy truck or bus override
(0) No towed unit	(9) Unknown
(1) Yes—towed trailing unit (9) Unknown	
(O) CHRIOWII	HEADING ANGLE AT IMPACT FOR
	HIGHEST DELTA V
22. Documentation of Trajectory Data for This Vehicle	
(0) No	Values: (000)-(359) Code actual value
(1) Yes	(997) Noncollision
(1)	(998) Impact with object
	(999) Unknown
23. Post Collision Condition of Tree or Pole (For Highest Delta V)	27. Heading Angle For This Vehicle 998
(0) Not collision (for highest delta V) with	
tree or pole	28. Heading Angle For Other Vehicle 998
(1) Not damaged	
(2) Cracked sheared	
(3) Tilted <45 degrees (4) Tilted ≥45 degrees	
(5) Uprooted tree	
(6) Separated pole from base	
(7) Pole replaced	
(8) Other (specify):	
(9) Unknown	}

Cate-	Configur- ation	ACCIDENT TYPES (Includes Intent)		
	A. Right Roadside Departure		ECIFICS THER	06 SPECIFICS UNKNOWN
Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SP	PECIFICS	10 SPECIFICS UNKNOWN
i i	C. Forward Impact		5 PECIFICS THER	16 SPECIFICS UNKNOWN
rway ion	D Rear-End	20 22 24 26 28 30 (E 21 23 25 27 27 31 SP	ACH • 32)	(EACH • 33) SPECIFICS UNKNOWN
II. Same Trafficway Same Direction	E Forward Impact	34 NO 36 NO 38 CO 40 NO E	CP (EACH • (12)(EACH • 43)
	F. Sideswipe Angle	44 45 45 (EACH · 48) SPECIFICS OTHER	(EACH	• 49) cs unknown
ay tion	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN		
Same Trafficway Opposite Direction	H Forward Impact	CONTROL/ TRACTION LOSS 56 57 58 59 60 60 60 60 60 60 60 60 60 6	51	62)(EACH • 63) SPECIFICS UNKNOWN
=	l. Sideswipe/ Angle	65 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN OTHER		
Change Trafficway Vehicle Turning	J. Turn Across Path	58 INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	(EACH • 74	4) (EACH • 75) SPECIFICS UNKNOWN
IV. Change Trafficw Vehicle Turning	K. Turn Into Path	77 79 81 82 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS	(EACH • 8 SPECIFICS OTHER	4) (EACH • 85) SPECIFICS UNKNOWN
V. Intersecting Paths (Vehicle Damage)	L. Straight Paths	87 (EACH • 90) 88 specifics OTHER	(EACH • 9	1)
VI. Miscel- laneous	M. Backing Etc.	92 93 OTHER VEH. 98 Other Accident OR OBJECT 99 Unknown Accid VEH. 00 No Impact		

37. Police Reported Other Dr (0) No other drugs prese	nt	7_	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug preso (7) Not reported (8) No driver present (9) Unknown	ent)		DEC Observation/ Specimen Perception Test Test Results Results
38. Police Reported Observa Test Type For Driver (0) No observation/perce (1) Drug recognition tech determination using I (2) Behavioral (3) Other physical observation (specification)	eption test given hnician (DRT) DEC process vation/perception	2	Narcotic Drug 40. 0 41. 0 Depressant Drug 42. 0 43. 0 Stimulant Drug 44. 0 45. 0 Hallucinogen Drug 46. 0 47. 0 Cannabinoid Drug 48. 0 49. 0 Phencyclidine (PCP) 50. 0 51. 0 Inhalant Drug 52. 0 53. 0 Other Drug (Excluding 54. 0 55. 0 Nicotine, Aspirin, Alcohol, Drugs Administered Post-Crash)
(4) DEC process available determination made (5) DEC process not available other observation/pectric (7) Other observation/pectric (specify): (8) No driver present	ilable, unknown if reption test given		Codes For Observation/Perception Test Results (0) No DEC observation/perception test given (1) Passed DEC observation/perception test (2) Failed DEC observation/perception test (3) DEC observation/perception test given— results unknown (8) No driver present
39. Other Drug Specimen Te (0) No specimen test giv (1) Blood test (2) Urine test (3) Other specimen tests (7) Unspecified specimen (8) No driver present (9) Unknown if specimen	s (specify):	0	 (9) Unknown if DEC observation/perception test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

OTHER DATA	61. Rollover Initiation Object Contacted
56. Driver's Zip Code	
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance (7) Hearse (8) Fire truck or car (9) Unknown	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction PRECRASH DATA 64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA	
If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9. 59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify): (9) Unknown rollover initiation type	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle (06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	(50) CHAICHTI

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover	(57) Fence
(01-30) — Vehicle Number	(58) Wall
(0.1.00)	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(33) Jackknife	(62) Fire hydrant
(DD) DECKNING	(63) Curb
Collision With Fixed Object	(64) Bridge
	(68) Other fixed object (specify):
(41) Tree (≤ 4 inches in diameter)	(00) Other fixed object (apechy).
(42) Tree (> 4 inches in diameter)	(CO) Halance fixed ablace
(43) Shrubbery or bush	(69) Unknown fixed object
(44) Embankment	
	Collision with Nonfixed Object
(45) Breakaway pole or post (any diameter)	(71) Motor vehicle not in-transport
	(76) Animal
Nonbreakaway Pole or Post	(77) Train
(50) Pole or post (≤ 4 inches in diameter)	(78) Trailer, disconnected in transport
(51) Pole or post (> 4 inches but ≤ 12 inches in diameter)	(88) Other nonfixed object (specify):
(52) Pole or post (> 12 inches in diameter)	(89) Unknown nonfixed object
(53) Pole or post (diameter unknown)	•
	(98) Other event (specify):
(54) Concrete traffic barrier	tare and around topour,
(55) Impact attenuator	(99) Unknown event or object
(56) Other traffic barrier (includes guardrail)	too, dimination or object
(specify):	
labecii y / .	

PRECRASH DATA (Continued) 65. Critical Precrash Event 06 Pedestrian or Pedalcyclist, or Other Nonmotorist (80) Pedestrian in roadway This Vehicle Loss of Control Due To: (81) Pedestrian approaching roadway (01) Blow out or flat tire (82) Pedestrian - unknown location (02) Stalled engine (83) Pedalcyclist or other nonmotorist in roadway (03) Disabling vehicle failure (e.g., wheel fell off) (specify): (specify): (84) Pedalcyclist or other nonmotorist approaching (04) Non-disabling vehicle problem (e.g., hood flew roadway (specify): up) (specify): (85) Pedalcyclist or other nonmotorist—unknown (05) Poor road conditions (puddle, pot hole, ice, etc.) location (specify): (specify): (06) Traveling too fast for conditions Object or Animal (08) Other cause of control loss (specify): (87) Animal in roadway (88) Animal approaching roadway (09) Unknown cause of control loss (89) Animal-unknown location (90) Object in roadway This Vehicle Traveling (91) Object approaching roadway (10) Over the lane line on left side of travel lane (92) Object—unknown location (11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side (98) Other critical precrash event (specify): (13) Off the edge of the road on the right side (14) End departure (99) Unknown (15) Turning left at intersection (16) Turning right at intersection (17) Crossing over (passing through) intersection (19) Unknown travel direction For Corrective Actions Attempted see variable GV14 (Attemped Avoidance Manuever) Other Motor Vehicle In Lane (50) Stopped (51) Traveling in same direction with lower speed 66. Precrash Stability After Avoidance Maneuver (i.e., lower steady speed or decelerating) (O) No avoidance maneuver (52) Traveling in same direction with higher speed (1) Tracking (53) Traveling in opposite direction (2) Skidding longitudinally-rotation less than 30 (54) In crossover degrees (55) Backing (3) Skidding laterally—clockwise rotation (59) Unknown travel direction of other motor vehicle (4) Skidding laterally—counterclockwise rotation in lane (7) Other vehicle loss-of-control (specify): Other Motor Vehicle Encroaching Into Lane (60) From adjacent lane (same direction) - over left (8) No driver present lane line (9) Precrash stability unknown (61) From adjacent lane (same direction)—over right lane line (62) From opposite direction—over left lane line 4 67. Precrash Directional Consequences of (63) From opposite direction—over right lane line Avoidance Maneuver (Corrective Action) (64) From parking lane (0) No avoidance maneuver (65) From crossing street, turning into same (1) Vehicle stayed in travel lane where avoidance direction maneuver was initiated (66) From crossing street, across path (2) Vehicle stayed on roadway but left travel lane (67) From crossing street, turning into opposite where avoidance maneuver was initiated direction (68) From crossing street, intended path not known (3) Vehicle stayed on roadway, not known if left (70) From driveway, turning into same direction travel lane where avoidance maneuver was (71) From driveway, across path initiated (72) From driveway, turning into opposite direction (4) Vehicle departed roadway (73) From driveway, intended path not known (5) Avoidance maneuver initiated off roadway (74) From entrance to limited access highway

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

(78) Encroachment by other vehicle—details

unknown

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

(8) No driver present

(9) Directional consequences unknown

U.S. Department of Transportation

National Highway Traffic Safety

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

dministration								CHASHV	OKIHINE	OO UMIM	O TO TEM
1. Primary	Sampling Unit			- 3 .	Vehicle	Numbe	•			_0	
2. Case N	umber - Stratum	<u> 9</u>	2-12	_							
		V	EHICLE I	DENTIF	ICATI	ON					
VIN _2 _	FACP	72G	5 M X			and the second second			Model Ye	ear <u>9</u>	
Vehicle Mal	ke (specify):	FORD		`	Vehicle f	Model (s	pecify):	LTN C	Somn	UICTOR	.IA_
			LO	CATO	R						
Locate the or an unda	end of the dama maged axle for s	ige with respect side impacts.	to the vehi	icle long	itudinal	center l	ine or b	umper c	orner fo	r end in	npacts
Specific In	mpact No.	Location of	of Direct Da	mage			Lo	cation c	f Field I		· · · · · · · · · · · · · · · · · · ·
7	2	EE NARRAT	UE								
			CRUS	SH PRO)FILE					•	
	dentify the plane		-measurem	ents are		e.g., at	bumper	, above	bumper	r, at sill,	above
s	ill, etc.) and labe	el adjustments (e.g., free sp	oace).							
N	Measure and doc	ument on the v	ehicle diagr	am the	location	of maxi	imum cı	ush.			
	Measure C1 to Compacts.	6 from driver to	passenger	side in	front or	rear imp	oacts ar	d rear t	o front i	in side	
	ree space value	is defined as th	a distance	haturaar	a tha ha	colina a	nd the c	original k	ody co	ntour ta	ken at
t	he individual C lo	ocations. This i	may include	the fol	lowing:	bumper	lead, b	umper ta	aper, sic	de protr	usion,
	side taper, etc. F							arusn.			
	Jse as many line	s/columns as ne		describ	e each (damage	profile.		<u> </u>	Γ	
Specific Impact Number	Plane of Impac C-Measuremen	t Width	Max Crush	Field L	C,	C ₂	C₃	C₄	С	C ₆	±D
7	SILL	(4"	21.25"	60	0	10.6	15.0"	20.0	21.25	7,5"	+ 5.2
-			7 - 11	1.5	0.5	0 1	0 "		a 11	11 5"	45 2
7_	BELTLINE	14"	30.2"	60	8.0	19.1"	30.5	d0.0	X .1"	7.0	45.2
7	SIDERAIL	13.0"	33.0"	54	15.5	30.75	33.0"	13.1"	_	-	
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	VEHICLE DAMAGE	SKETCH	
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF 2 RF 2 LF 2 LF 2 LF 2 LR 2 LR 2 LR 2	ORIGINAL SPECIF Wheelbase Overall Length Maximum Width Curb Weight Average Track Front Overhang Rear Overhang Engine Size: cyl./displ. Undeformed End Width	1(4.3" 211.0" 77.5" 3822 62.75" 8enl. / 5.86itin	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ± o LF ± o RR ± o LR ± o Within ± 5 degrees DRIVE WHEELS FWD X RWD □ 4WD Approximate Cargo.Weight
TREE IMAKET PUSH BUMPERS TO PUSH BUMPER 62.2"	FRONT EAD STROKE R= 1.35" L= 0.625" Original Bumper height	→	63.3 "
	nper corner " Stringline " DEUNEATOR INPACT #1	POST CRASH TREE IMPACT 47 LI3"-64"-	Bumper corner "Stringline DELINEATOR IMPACT #1, 8-19" REARWARD OF RE AXLE TREE IMPACT
NOTES: Sketch new perimeter and cross hat in reconstructing the accident (e.g., damage received on the back of this	grass in tire bead, direction of striation	s, scuff on sidewalls, etc.). I	Bumper corner Stringline Stringline notate observations which might be useful f pulling trailer, sketch type of trailer and

(52) Pole or post (> 12 inches in diameter)

(56) Other traffic barrier (includes guardrail)

(53) Pole or post (diameter unknown)

(54) Concrete traffic barrier (55) Impact attenuator

(specify):

CDC WORKSHEET CODES FOR OBJECT CONTACTED (57) Fence (01-30) - Vehicle Number (58) Wall (59) Building **Noncollision** (60) Ditch or culvert (31) Overturn - rollover (61) Ground (32) Fire or explosion (33) Jackknife (62) Fire hydrant (63) Curb (34) Other intraunit damage (specify): (64) Bridge (35) Noncollision injury (68) Other fixed object (specify): (38) Other noncollision (specify): (69) Unknown fixed object (39) Noncollision — details unknown Collision with Nonfixed Object (71) Motor vehicle not in-transport **Collision With Fixed Object** (72) Pedestrian (41) Tree (≤ 4 inches in diameter) (73) Cyclist or cycle (42) Tree (> 4 inches in diameter) (74) Other nonmotorist or conveyance (43) Shrubbery or bush (44) Embankment (75) Vehicle occupant (76) Animal (45) Breakaway pole or post (any diameter) (77) Train (78) Trailer, disconnected in transport Nonbreakaway Pole or Post (50) Pole or post (≤ 4 inches in diameter) (88) Other nonfixed object (specify): (51) Pole or post (> 4 inches but ≤ 12 inches in (89) Unknown nonfixed object diameter)

DEFORMATION CLASSIFICATION BY EVENT NUMBER

(98) Other event (specify):

(99) Unknown event or object

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
_0_1_	50	015	00	R	<u></u>	E	w	01
<u> </u>	50	060	00	R	E	E	<u>\rangle</u>	01
03	43	000	00	<u> </u>	$\overline{\mathcal{D}}$	\sim	<u>.u</u>	<u> </u>
<u>04</u>	41	090	00	F	<u>Z</u>	` <u>L</u>	<u>_</u> S_	01
_05	<u> 42</u>	000	00	R	£	_6	$\overline{\mathcal{N}}$	<u> </u>
06	<u>41</u>	000	00	R	<u> </u>	<u> </u>	$\overline{\lambda}$	02
_07	42	000	00	R	ρ	<u>_A_</u>	<u>N</u>	05

	C	OLLISION	DEFORMA	TION CLAS	SIFICATIO	N	
HIGHEST D	ELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. 0 7	5. <u>4</u> 2	6. <u>0</u> 0	7. <u> </u>	8. <u> </u>	9. <u>A</u>	10. <u>/)</u>	11. <u>05</u>
Second Hig	ghest Delta "V'						
12. 0 5	13. <u>42</u>	14. <u>0</u> 0	15. <u>R</u>	16. <u> </u>	17. <u>E</u>	18. <u>N</u>	19. <u>0</u> 3
			CRUSH	PROFILE			
	The crush prof in the a	file for the da ppropriate sp	mage described ace below. (Al	in the CDC(s)	above should ENTS ARE IN	be document INCHES.)	ed
HIGHEST I	DELTA "V"						
20. L SIDERAIL	21. <u>C1</u> CRUSH				С ₆	C ₆	22.
054	16	31	<u>33</u>	13			+
S aund Hi	ghest Delta "V	я					
23. L BELTLINE	24. C ₁ : CRUSH				Сь	C ₆	25.
060	_08_	19	30	20	<u>08</u> .	04 .	€ - 005
26. Are CDCs Documented but Not Coded on The Automated File? (0) No (1) Yes 27. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 28. Original Wheelbase 1 4 3 Code to the nearest tenth of an inch (9999) Unknown (9999) Unknown							

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National Accident	Sampling System	m-Crashworthiness	Data System:	Exterior Vehicle	Form
National Accident	. Janiuliniu Jyste		Data Officini	- PVIBLIOL ABILICIE	

totional rivolatini oumping o jotom ordeni	 7	
29. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified 30. Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	 31. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown	
	I VAS NOT TOWED AND WAS NOT AN AOPS T COMPLETE THE INTERIOR VEHICLE FORI	

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U.S. Department of Transportation

National Highway Traffic Safety Administration

MINTERIOR VEHICLE FORM.

1. Primary Sampling Unit Number

- 2. Case Number—Stratum
- 3. Vehicle Number

INTEGRITY

- Passenger Compartment integrity
 - 400) No integrity loss : 100
 - Yes, Integrity Was Lost Through
 - (01) Windshield
 - 102) Door leide)
 - (03) Door/hatch (back door)
 - (04) Roof
 - (05) Roof glass
 - (06) Side Window
 - (07) Rear window (backlight)
 - (08) Roof and roof plass
 - (COS) (Windshield and door (Mids)
 - (10) Windshield and roof 当点
 - (11) Side and rear window teide window and back
 - (12) Windshield and side window,
 - 13) Door and side window

 - (98) Other combination of above (specify)
 - (99) Unknown

Door, Tailgate or Hatch Opening

- 5. LF 3 6. RF 3 7. LR 3 B. RR 3 A. TGH AS
 - (0) No door/gate/hatch
 - (1) Door/gate/hatch remained blosed and operational
 - (2) Door/gats/hatch came open during collision ...
 - (3) Door/gate/hatch jammed shut
 - : (8) Other (specify):
 - (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø

- 10. LF O11. RF O12. LR O13. RR O14. TG/H O
 - (0) No door/gate/hatch or door not opened
 - Door, Tailgate or Hatch Came Open During Collision
 - (1) Door operational (no damage)
 - (2) Latch/striker failure due to damage
 - (3) Hinge failure due to damage
 - (4) Door structure failure due to damage
 - (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
 - Latch/striker and hinge failure due to damage
 - Other failure (specify):
 - (9) Unknown

GLAZING

- Glazing Damage from Impaci (Forcell)
- BENEFIL DE LA CONTROL DE LA CO
- DORSEN TO A STRUCTURE.
- Glazing Damage from Occupant Contact
- 23.WS 0 24 LF 025 RF D 26 LR D 27.RR 0
- 28. BL 10 29. Roof 10 30. Other 10
 - (O) No occupant contact to glazing or no glazing
 - (1) (Glazing contacted by occupant but no plazing damage
 - (2) Glazing in place and pracked by occupant contact
 (3) Blazing in place and holed by occupant contact

 - (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
 - (5) Glazing out-of-place by occupant contact and holed by occupant contact 🞉
 - (6) Glazing disintegrated by occupant contact
 - (49) Unknown if contacted by occupant 👍

If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As 2

Type of Window/Windshield Glazing

- 31.WS 1 32.LF 2 83.RF 2 34./R 2 35.RR 2
- 36. BL 👤 37. Roof 🔾 38. Other 💍
 - (0) No glazing contact and no damage, or no glazing
 - (1) AS:1 = Lamineted

 - (2) AS-2 Tempered : ## 5 (3) AS-3 Tempered-tinted
 - (4) AS-14 Glass/Plastic
 - (8) Other (specify):
 - (9) Unknown

Window Precrash Glazing Status

39.WS 40.LF 3 41.RF 2 42 IR 3 43.RR 2

- 44 BL 1 45 Roof D46. Other D
 - (0) No glazing contact and no damage, or no glazing
 - (1) Fixed
 - (2) Closed
 - (3) Partially opened
 - (4) Fully opened
 - (9) Unknown

OCCUPANT AREA INTRUSION Note: if no intrusions, leave variables IV47:IV86 blank, & MERION (CHEOMSONE) Magritude Adiatrical (01) Sreening assembly (0/2) Instrument panel lett: Intruding (02)) instrument example content (02) instrument strict (00) (05): 10 span how had been the factor of the styn ser man focusers of b styn ser man focusers of b styl strong the older styl strong the older style occurs the older 424) Seat cushion (25) Back door/panel (8.g./tailgate) The second second (26) Other Interior component (specify): 127) Side panel - Forward of the A-pillar 🤝 (28) Side panel - rear of the A-pillar 7th .71: ******** 72. ******** Exterior Components (08) Hood 🕸 8th -7/5, 2000 2006 (31) Dutside surface of this vehicle ispecify): (32) Other exterior object in the environment specify): (33) Unknown exterior object **30.** 9th 79. (97) Catastrophic 😼 (98) Intrusion of unlisted component(s) =(specify): 10th □83. □ 10th □84. (99) Unknown 🐭 LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 1 inch but < 3 inches Fourth Seat Front Seat 🕒 🥕 🦫 (2) ≥ 3 inches but < 6 inches (11) Left (41) Left 3 (3) ≥ 6 inches but < 12 inches (42) Middle (12) Middle [4] ≥ 12 inches but < 18 inches (13) Right (43) Right (5) ≥ 18 inches but < 24 inches *(6)" ≥ 24 inches (97) Catastrophic Second Seat (21) Left (7) Catastrophic (98) Other enclosed 19) Unknown (22) Middle area (specify) ... (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical 😓 (31) Left (2) Longitudinal (32) Middle :: (3) Lateral = (33) Right ... 3 (7) Catastrophic (9) Unknown

ST	EER	ING	CO	LUM	١
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- 87. Steering Column Type
 - (1) Fixed column
 - (2) Tilt column
 - (3) Telescoping column
 - (4) Tilt and telescoping column
 - (8) Other column type (specify):
 - (9) Unknown
- Property of the control of the contr
- (9) Single

 This smable regit alraktion of the numbering possistency can be maintained with the 1908 of 11 cos.
- 90. Blank

 Fights variable is left blank

 Pap that numbering consistency

 assan be maintained with the s

 1.888-91 CDS
- 91 Blank XXX
 This variable is left blank
 so that numbering consistency
 can be maintained with the
 1988-91 CDS.

- 92. Steering Rim/Spoke Deformation
 [15] Code actual measured
 deformation to the hearest inch.
 (0) No steering rim deformation
 11-5) Actual measured value
 - (6) 8 inches or more
 (8) Observed deformation cannot be measured.
 - (9) Unknown
- 93. Location of Steering Rim/Spoke
 Deformation
 (00) No attention im deformation

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16 2	45	BC D	อก ส	

- (02) Section C
- (04) Section D



- (05) Upper half of rim/spoke
- (06) Lower half of rim/spoke (07) Left half of rim/spoke
- (08) Right half of rim/spoke



- (10) Undetermined location
- (99) Unknown

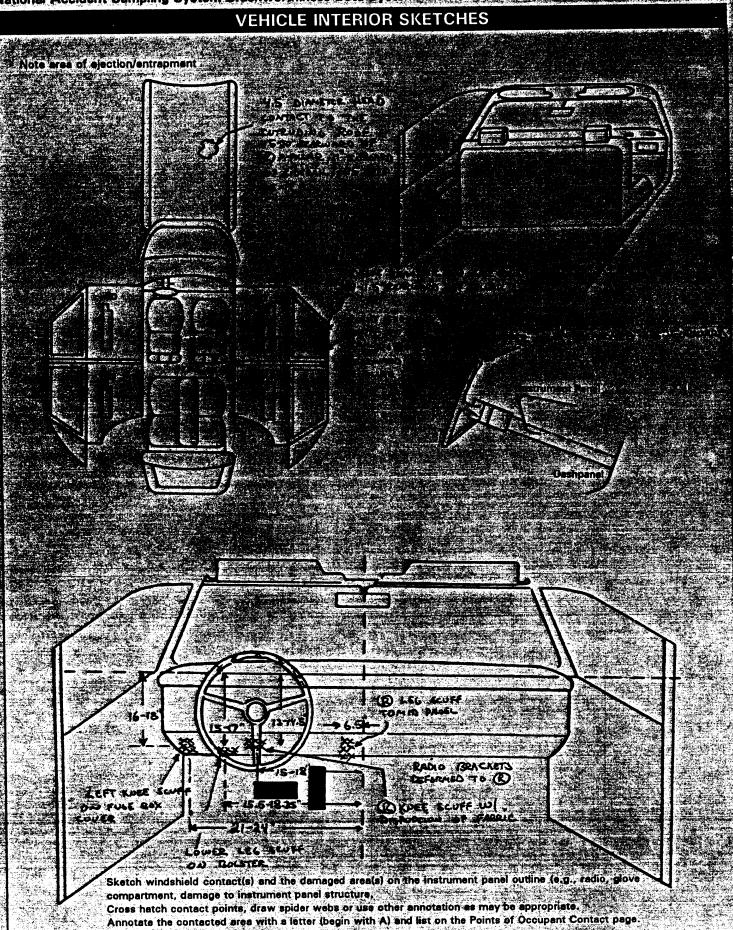
XXX

INSTRUMENT PANEL

- 94. Odometer Reading 2 2 2 000
 - 26919 miles—Code mileage to the nearest 1,000 miles (000) No odometer
 - (001) Less than 1,500 miles (300) 299,500 miles or more
 - (999) Unknown

Source:

- 95. Instrument Panel Damage from Occupant Contact?
 - (0) No
 - (1) Yes
 - (9) Unknown
- 96. Knee Bolsters <u>Deformed</u> from Occupant Contact?
 - Occupant Contact (0) No
 - (1) Yes
 - (O) Alex
 - (8) Not present
 - (9) Unknown
- 97. Did Glove Compartment Door Open During Collision(s)?
 - (0) No
 - (1) Yes
 - (8) Not present
 - (9) Unknown



POINTS OF OCCUPANT CONTACT					
Contact	Interior Component Contacted	Occupant No. If Known	Body Region M If Known	the same of the sa	Confidence Level of Contact Point
A	一個名實 計画		1) KDEE	SCOPF	种类的
- В	13 111-	A Commence	LEG DE DE	SCUFF TO THE PROPERTY OF	* 11 *
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The Contract of the Contract o	CODES	FOR INTERIOR COMPONENTS	i Stran Marie	
FRONT	(26)	Left side window glass including	(48)	Child safety seat (specify):
(01) Windshield		one or more of the following:		
4 (02) Mirror		frame, window sill, A pillar,	(49)	Other interior object (specify):
(03) Sunvisor	L 4200	B pillar, or roof side rail.	en John Labora	POLICE RADIOS
(04) Steering wheel rim	(27)	Other left side object (specify): 🤙	William The	Becauti Kalanika da Mareb
(05) Steering wheel hub/spoke			ROOF	
্রে(06) Steering wheel (combination ি	(28)	Left side window sill	(50)	Front header
ਾਲੀ ਜ਼ਿਲ੍ਹੀ codes 04 and 06) -ੀ ਜ਼ਿਲ੍ਹੀ	以为父为新兴		(51)	Rear header
(07) Steering column, transmission	# RIGHT	SIDE	(52)	Roof left side rail
selector lever, other attachment	∂⊘::(30)	Right side interior surface,	(53)	Roof right side rail
(08) Add on aquipment le.g., CB, tape	Property of	excluding hardware or armrests	(54)	Roof or convertible top
deck, air conditioner)	(31)	Right side hardware or armrest		Later and resident from the Control of the Control
(09) Left instrument panel and below	(32)	Right A pillar	FLOOR	
(10) Center instrument panel and below	v 🦭 (33)	Right B pillar	(56)	Floor (including toe pan)
(11) Right instrument panel and below	(34)	Other right pillar (specify):	(57)	Floor or console mounted
(12) Glove compartment door			Ty year	transmission lever, including
(13) Knee bolster	(35)	Right side window glass or frame		console
(14) Windshield including one or more	(36)	Right side window glass including	(58)	Parking brake handle
of the following: front header, A-	数數學	one or more of the following:	(59)	Foot controls including parking
pillar, instrument panel, mirror, or	100	frame, window sill, A pillar,		brake
steering assembly (driver side only)	B pillar, or roof side rail.	work.	
(15) Windshield including one or more	(37)	Other right side object (specify):	REAR	
of the following: front header, A-	in the second		(60)	Backlight (rear window)
pillar, instrument panel, or mirror	— (38)	Right side window sill		Backlight storage rack, door, etc.
(passenger side only)			(62)	Other rear object (specify):
(16) Other front object (specify):	INTERI	OR		in the second of
	(40)	Seat, back support	richt den	es este per de la
	(41)		and the	The second of the second of the second
LEFT SIDE	(42)	경우의 이번 어떻게 되었다. 그렇게 사람이 가장되었다면 가고 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	processor actions, #44	THE PART OF THE PROPERTY OF THE PARTY OF THE
(20) Left side interior surface,		attachment point	A COMPANY	
excluding hardware or armrests	(43)	Other restraint system component		CONFIDENCE LEVEL OF
(21) Left side hardware or armrest	en e	(specify):		CONTACT POINT
l	A CONTRACTOR OF THE PARTY OF TH		4.0 (6.16	tinan medalikan balangan di anggarangan salah ke

(22) Left A pillar (23) Left B pillar

- (24) Other left pillar (specify):
- (25) Left side window glass or frame
- (specify):____
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects

- (2) Probable
- (3) Possible
- (9) Unknown

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. After attributes of the variables may be routed and was below. Restraint systems should be assessed during the vehicle inspection, then coded on the Occupant Assessment Form.

AIR BAGS

						Flight Market Market
TALE.		Availability	/Function		16.540 16.540	· 2
	7	Service Service	45	English Services	AND RELEASE	
		*#Falling 1979		Enclosed to the Second Co.	o to the second	

Lione	
是是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们	
A Vallading / For the state of	1.3

	45 10
	A tac et
Proper Use VALUE TO SERVE AND SERVE	
Failure Modes # ## ## On Have and ##	A.

Autometic (Pessive) Belt Bystem Availability/Function

- (O) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed (0) Not equipped in operative
- 🐃(1) Automatic belt in use 🚁 🛣
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system (2) Motorized system

the transfer of the same

(9) Unknown

- ...(0) Not equipped/not available/not used
- (1) Automatic belt used properly 😤
- (2) -Automatic belt used properly with child safety seat 3

Til de a confidence de la companya de la confidence de la Automatic Belt Used Improperty

- (3) *Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind - back
- (5) Automatic belt worn around more than one person 🔑 🐫
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used
- (8) Other improper use of automatic belt (specify):
- (9) Unknown artistic to the control of the control

Automatic (Passive) Belt Fallure Mo During Accident

- (O). Not equipped/not available/not in use
 - (1) No sutomatic belt fellure(s)
 - (2) Forn webbing (stretched webbing not
 - (3) Broken buckle or latchplate

 - (4) Upper anchorage separated (5) Other anchorage separated (specify)
 - (6) Broken retractor,
 - (7) Combination of above (specify):
 - (8) Other automatic belt failure (specify) Marie Ma
 - (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. Althe attribute for the variable may found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		i de la companya de l	Right
Fig. 4A vallability Marchae (2014)			1
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A sallure aviodes ()			" 自我们 "二二次全体的
Ayallability with:			"我们什么 ""我们
Kallura Modes		A CELEBRATE A	是"And"上"And"上,
valiability (A Valle)	Mark Control	一种好的物理	
The State of the S	这种种类型。		
Failure Modes (* *			A Principle of the Control of the Co
Availability ****			COMPLETE OF THE SECOND
A Self of the Control			
a Fallure Modes	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	Frank Profesional	

Aanual (Active) Belt System Availability

(1915年) 1816年 (1916年) (1916

- 10) None available
- (1) Belt removed/destroyed

 - (3) Lap belt :
- (4) Lap and shoulder belt 🐇 🕬
- (5) Belt available type unknown

Integral Belt Partially Destroyed 🦼 🛣

- (6) Shoulder belt (lap belt and land) destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed) WEST SECTIONS
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
 - (01) Inoperable (specify): The state of the s

 - (04) Lap and shoulder belt
 - (05) Belt used type unknown

(08) Other belt used (specify): Committee of Manager

- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat 1201 type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used 🖖 🥶

Manual (Active) Belt Failure Modes During Accident

(0) No manual belt used or not available

of the section of the section of

- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other enchorage separated (specify):

in the statement of the terminal in the second

- Combination of above (specify):

with a state of the second

- (8) Other manual belt failure (specify):
- (9) Unknown

CHILD SAFETY SEAT FIELD ASSESSMENT

When a child safety seat is present enter the occupant's number in the first roward complete the column octo.
The occupant's number using the codes listed below. Complete's column for each child safety seat bresen.

the occupant's number using the codes listed below.	Security Addition of Feet and the A 11 An 111 in 2
Occupant Number	OVE
f. Type of Child	
Safety Seat	
Chantaion:	
Speld (April)	
THE STATE OF THE S	
No shill estate and	con y Bolowa (2) The second of the second
Vake/Model	
de de la company de la comp La company de la company d	And the form fine forms
O) Solverible (1)	
Property of the control of the contr	ंग्रह्मान में किए होते हैं है
(e) Enkingwit Enlight (GV 2011: VPC) (e) Vinition (College College College)	Not Pesigned synth Harness/Shield/Lether (011) Attermerket hemess/shield/tether
- « ស្នាស់ ការប្រកាស ពីពីពេក្យបារ នេះ ។ ។	edded; not used; (O2) After market harness/snield/temer.used;
(00) Closchild Lifety (see 1)	(03) Child safety seat used, but no after market harness/shield/tether added
Jesigned for Real Facing for Finis Age/Weight	(09) Unknown if harness/shield/tether added or used
(01) Rear facing (02) Forward facing (02) Forward facing	Designed With Harness/Shield/Tether
(08) Other orientation (specify): ** A 14	[11] Harness/shield/tether not used (12) Harness/shield/tether used (12)
(09) Unknown prientation particles in the state of the st	(19) Unknown if harness/shield/tether used
Designed for Forward Facing for This Age/Weight	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used
112) Forward facing (18) Other orientation (specify):	(22) Tarness/shield/tether used
(19) Unknown orientation	(99) Unknown if child safety seat used
Unknown Design or Drientation For This	6. Child Safety Seat Make/Model (Specify make/model and occupant number) #
Age/Weight, or Unknown Age/Weight 4	The state of the s
(22) Forward facing (28) Other prientation (specify):	
(29) Unknown orientation	
(99) Unknown if child safety seat used &	

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

24		Left	Center	Right
F	Head Restraint Type/Damage	3	ない。漢字によると物質	The Harman
ار	Seat Type	* = 06 * ·	206	06
R S	Seat Performance		计选择人类	**************************************
	Seat Orientation	September 1 To the September 1	America -	AND A STATE
.s∵	Head Restraint Type/Damage		To the second	
စွဲ့မှုပွဲ	Seat Type	ε α	n3	03
* O	Seat Performance		No. of the second second	1
D.	Seat Orientation			
.	Head Restraint Type/Damage			
H	Seat Type			
Ŕ	Seat Performance			
D .	Seat Orientation			
O	Head Restraint Type/Damage			
Ť	Seat Type			
Ë	Seat Performance			
.R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This Occupant Position

- (O) No head restraints
- (1) Integral no damage
- Integral damaged during accident
- (3)
- Adjustable no damage Adjustable damaged during accident (4)
- Add-on no damage (5)
- Add-on damaged during accident
- (8) Other Specify):
- Unknown

Seat Type (this Occupant Position)

- (00) No seat
- (01)Bucket
- (02)Bucket with folding back
- (03)Bench
- (04)Bench with separate back cushions
- (05)Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s)
- (08) Pedestal (i.e., column supported)
- (09)Other seat type (specify):
- Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (O) No seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (O) No seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

EJECTION/ENTRAPMENT DATA

Examplete the following if the researcher has any indication in rean security in a security of a security of the in the vehicle... Code the appropriate data on the Occpant Assessment form.

EJECTION THE NO. OF LAYER

Describe indications for election and nody parts involved in partial alection is

- Ficuraje electronica en
- 11 Partial sjection
- 3(8) Ejection, Unknown tegree
- 19) Unknown:

Ejection Area

- (1) Windshield
 - 12) Left front
- (3) Right front
- (14) Left rear
- (5) Right rear
- (6) Rear 🐲

- in editalents elver stintent Tilettinente i thendak
- 49) Unknown

Election Medium

- (1) Door/hatch/tailgate
- (2) Nonfixed roof structure
- 13) Fixed glazing 198 23
- 944) Nonfixed plazing (specify):

- is and fals in the
- a) Find and time to get the
- (9) Enknown

Medium Status Ummediately Press

- o Empact) S
- si opor E) -body E) (régul syrigité)
 - D Linkson a

ENTRAPMENT No I Progres (

Describe entrapment mechanism:

Component(s):

(Note in vehicle interior diagram)

APPENDIX D

NASS Occupant Forms



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

National Highway Traffic Safety

NATIONAL ACCIDENT SAMPLING SYSTEM

Administration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum 92-12	11. Occupant Posture (0) Normal posture (1) Abnormal posture (specify): (9) Unknown
3. Vehicle NumberO1	
4. Occupant Number Ol	EJECTION/ENTRAPMENT
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown
6. Occupant's Sex (1) Male (2) Female (9) Unknown 7. Occupant's Height 70.5" Code actual height to the nearest inch. (99) Unknown 8. Occupant's Weight 220 lb., 2 2 0 Code actual weight to the nearest pounds. (999) Unknown	13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown 10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify):	14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):
(15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side	15. Medium Status (Immediately Prior To Impact) O (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
(99) OHMUWH	109

	na Accident Company Tyttem Crossition and Company	
RE	STRAINT SYSTEM AND SEAT EVALUATION	21. Air Bag System Availability/Function
	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	(0) Not equipped/not available (1) Air bag Non-functional
	(3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	(2) Air bag disconnected (specify): (3) Air bag not reinstalled
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed)	(9) Unknown
	(7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Air Bag System Deployment (0) Not equipped/not available
	(9) Unknown	 (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just
18.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed
	(02) Shoulder belt (03) Lap belt	(6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
	(04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(9) Unknown
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown 	23. Did Air Bag System Fail? (0) Not equipped/not available (1) No (2) Yes (specify):
	(18) Other belt used with child safety seat (specify): (99) Unknown if belt used	(9) Unknown
19.	Proper Use of Manual (Active) Belts (0) None used or not available	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	(1) Belt used properly (2) Belt used properly with child safety seat	24. Police Reported Restraint Use (0) None used
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat	(1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt
	(5) Belt worn around more than one person (6) Lap belt worn on abdomen	(4) Lap and shoulder belt
	(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	(5) Belt used, type not specified(6) Child safety seat(7) Other or automatic restraint (specify):
	(8) Other improper use of manual belt system (specify):	(8) Restrained, type unknown (9) Police indicated "unknown"
	(9) Unknown	
20.	Manual (Active) Belt Failure Modes	
	 (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) 	25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage
	(3) Broken buckle or latchplate(4) Upper anchorage separated(5) Other anchorage separated (specify):	(2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident
	(6) Broken retractor (7) Combination of above (specify):	(5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
	(8) Other manual belt failure (specify):	(9) Unknown
	(9) Unknown	

26.	Seat Type (this Occupant Position) (00) Occupant not seated or no seat	30. Child Safety Seat Orientation OOO No child safety seat
	(01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):
27.	Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify):	(19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used 31. Child Safety Seat Harness Usage
	(8) Other (specify): (9) Unknown	32. Child Safety Seat Shield Usage
	CHILD SAFETY SEAT	33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	(11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used

INJURY CONSEQUENCES	38. Working Days Lost 6 1
34. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
(9) Unknown 35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported	29. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
(6) Treatment later(8) Treatment - other (specify):	40. 1st Medically Reported Cause of DeathO_O
(9) Unknown	41. 2nd Medically Reported Cause of DeathO_O
36. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	42. 3rd Medically Reported Cause of DeathO _OCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (97) Other result (specify): (99) Unknown
(9) Unknown 37. Hospital Stay (00) Not Hospitalized — Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

	AUTOMATIC BELT SYSTEM	48.	Automatic (Passive) Belt Failure Modes
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	70.	During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown		(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):(9) Unknown
45.	Automatic (Passive) Belt System Use O		
	 (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown 	49.	Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify):
	(9) Unknown		
46	Automatic (Passive) Belt System Type		(9) Unknown
40.	(0) Not equipped/not available		TRAUMA DATA
	(1) Non-motorized system(2) Motorized system(9) Unknown	50.	. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat		(03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen	51.	. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):	52.	. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) ABCo extra actual value of the HCO ₃
	(8) Other improper use of automatic belt system (specify):(9) Unknown		(96) ABGs reported , HCO3 unknown (97) Injured, details unknown (99) Unknown if injured
	UPDATE CANDIDATE?		NO [YES []
	OCCUPANT INJURY FORM INCLUDED WITH	H IN	
	*** STOP IF THERE ARE NO F (I.E., OA43	HE REC(RE *** ORDED INJURIES 0.97.99)

Administration

U.S. Department of Transportation National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

 1. Primary Sampling Unit Number
 3. Vehicle Number
 01

 2. Case Number - Stratum
 92-12
 4. Occupant Number
 01

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data		O.I.CA.I.S					Injury		
1 (888)		Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.
1st	Б. <u>2</u>	6. <u>C</u>	7. <u>R</u>	8. <u>f</u>	9. <u>S</u>	10. <u>4</u>	11. <u>33</u>	12. <u> </u>	13	14. <u>03</u> 0 ⁴
2nd	15. <u>2</u>	16. <u>C</u>	17. <u>R</u>	18. <u>C</u>	19. <u>P</u>	20. <u>3</u>	21. <u>3</u> 3	22. <u>l</u>	23. <u> </u>	24. <u>03</u> /04
3rd	25. <u>}</u>	26. <u>W</u>	27. <u>L</u>	28. <u>R</u>	29.፲	30. <u> </u>	31. <u>45</u>	32. <u> </u>	33. <u>1</u>	34. <u>0 0</u>
4th	35. <u>2</u>	36. <u>H</u>	37. <u>W</u>	38. <u>K</u>	39. <u>B</u>	40. <u>2</u>	41. <u>5 4</u>	42. <u> </u>	43. <u> </u>	44. <u>0</u> 1
5th	45. <u>2</u>	46. <u>F</u>	47. <u>R</u>	48. <u>F</u>	49. <u>S</u>	50. <u>2</u>	Б1. <u>5Ч</u>	52. <u> </u>	53. <u>l</u>	5 4. <u>О 1</u>
6th	55. <u>. 2</u>	56. <u>R</u>	57. <u>R</u>	58. <u>F</u>	59. <u>.C</u>	60. <u>2</u>	61. <u>53</u>	62. <u>1</u>	63. <u> </u>	64. <u>Ol</u>
7th	65. <u>2</u>	66. <u>C</u>	67. <u>S</u>	68. <u>F</u>	69. <u>S</u>	70. <u>2</u>	71. 4 0/2	O72. <u> </u>	73	74. <u>0 0</u>
8th	75. <u>2</u>	76. <u>F</u>	77. <u>C</u>	78. <u>F</u>	79. <u>S</u>	80. <u>2</u>	81. <u>54</u>	82. 👤	83. 1	в4. <u>О]</u>
9th	85. <u>2</u>	86. <u>S</u>	87. <u>R</u>	88. <u>F</u>	89. <u>S</u>	90. <u>2</u>	91. <u>5 3</u>	82. <u> </u>	93. <u>l</u>	84. <u>0 2</u>
10th	95. <u>2</u>	96. <u>R</u>	97. <u>R</u>	98. <u>F</u>	99. <u>S</u>	100. <u>3</u>	101. <u>53</u>	102. <u> </u>	103. 👤	104. <u>02</u>

HS Form 433B (1/92)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

OCCUPANT INJURY DATA											
	_		O.I.CA.I.S					Injury			
	Source of Injury Data	Body Region	Aspect	Lesion	System Organ	A.I.S. Severity	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion No.	
11th	<u>2</u>	£	<u>C</u>	<u>L</u> _	I	上	<u>54</u>	1	<i>T</i>	<u>0</u> 1	
12th	<u>.2</u>	<u>H</u>	<u>R</u>	<u>L</u>	<u>E</u>	1_	<u>54</u>	1	1	01	
13th	_2	出	<u>s</u>	L	<u>I</u>	上	<u>54</u>	1	1	<u>01</u>	
14th	_2	£	I	<u>0</u>	<u>ડ</u>	1	54	1	1	01	
15th	_	_			_						
16th		_			_						
17th											
18th	_										
19th											
20th						_					
21st									_		
22nd			. —		_			_			
23rd	_		_					_	_		
24th					_						
25th								_			

AGE 54 SEX MALE 99KG WI. (220 1bs HI. (70.5!!)

Superior scalp laceration Right earlobe laceration (AIS-1), intruding roof (AIS-1), intruding roof Closed head injury with brief loss of consciousness and residual cognitive deficits (AIS-2), roof Displaced nasal fracture (AIS-2), Dislocated teeth, #D5-8 (AIS-1), intruding roof intruding roof Nasal laceration (AIS-1), Non-displaced fracture of theright zygoma (AIS-2), intruding roof intruding roof Right clavicle fracture (AIS-2), intruding right roof side rail Fractured right ribs 2-9 T-12 spinous process fracture with flail chest and (AIS-2), rebound contact into seatback/door right hemothorax (AIS-4), right B-pillar Full thickness thermal burn Right pulmonary of the dorsal left middle, contusion (AIS-3), ring and fifth fingers right B-pillar (AIS-1) air bag inflator Comminuted fracture module of the right radial head (AIS-3), right roof side rail Fracture of the right proximal ulna (AIS-2), right roof side rail

SOURCE OF INJURY DATA (1) Autopsy records with or without hospital medical records (2) Hospital medical records other than emergency room (e.g., dishcarge summary)

- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency

UNOFFICIAL

- (5) Lay coroner report (6) E.M.S. personnel
- interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (O2) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination
- of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, Apillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, Apillar, instrument panel, or mirror (passenger side only)
- (16) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A piller
- (23) Left B pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame

- (26) Left side window glass including one or more of the following: frame, window sill, A-pillar, B-piliar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

- (30) Right side interior surface. excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A pillar
- (33) Right B pillar
- (34) Other right pillar (specify):
- Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag
- (46) Other occupants (specify):
- (47) Interior loose objects
- Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood ornament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle
 - (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE

ENVIRONMENT

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- (2) Probable
- (3) Possible
- Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury (1)
- Indirect contact injury (2)
- (3) Noncontact injury
- Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

O.I.C. Body Region

- Abdomen
- (Q) Ankle-foot
- Arm (upper)
- Back-thoracolumbar spine Chest (C)
- Elbow (E)
- Face
- Forearm
- (H) Head-skull (U) Injured, unknown region
- Knee (K)
- (L) Lea (lower)
- Lower limbs(s) (whole or unknown part)
- (N) Neck-cervical spine (P) Pelvic-hip
- (S) Shoulder
- Thigh (X) Upper limb(s) (whole or
- unknown part) Whole body
- Wrist-hand

- Aspect of Injury
- (A) Anterior - front
- (B) Bilateral (rib fracture only) (C) Central
- (1) Inferior-lower
- (U) Injured, unknown aspect (L)
- Posterior-back
- (R) Right (S) Superior-upper
- Whole region (W) Lesion

(N)

(D)

- Abrasion
- (M) **Amputation**
- **(V)** Avulsion
- (B) Burn (K) Concussion
- (C) Contusion
- Crush (G) Detachment, separation

- Fracture and dislocation
- Injured, unknown lesion (U) Laceration (L)
- (0) Other
- (P) Perforation, puncture
- (R) Rupture
- (S) Sprain
- (T) Strain
- (E) Total severance, transection

System/Organ

- (W) All systems in region Arteries-veins
- (B) Brain
- Digestive (D)

(A)

- (E) Ears
- (0) Eve (H) Heart
- (U) Injured, unknown system
- m Integumentary
- (J) Joints. (K) Kidneys

Muscles

(L)

- Liver (N) Nervous system
- Pulmonary-lungs Respiratory
- **(S)** Skeletal
- (C) Spinal cord (Q) Spleen m Thyroid, other endocrine
- aland Vertebrae

Abbreviated Injury Scale

- (1)
- Minor injury (2) Moderate injury
- (3) Seriour injury
- (4) Severe injury (5) Critical injury
- Maximum (untreatable) Injured, unknown severity

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